

## **Historic, Archive Document**

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## Discovering Jefferson Letters

*"It was immediately clear that the book had been undisturbed for a very long time.... The book sprang apart, like a box, disgorging leaf after leaf of faded paper, blue, cream, grey, covered with rusty writings, the brown scratches of a steel nib. Roland recognized the handwriting with a shock of excitement."* [From A. S. Byatt, *Possession*; New York: Random House, 1990. pp. 4-5.]

by Anne Effland, Historian, Agricultural and Rural History Section, Economic Research Service, USDA; Alan Fusonie, Head, Special Collections, NAL; and Brian Norris, Public Affairs Officer, NAL

### Agriculture Secretary Proposes to Merge NAL with New Research Agency

The National Agricultural Library will be merged into a new Agricultural Research and Education Service under a proposed reorganization of the U.S. Department of Agriculture announced by USDA Secretary Mike Espy on September 7, 1993.

Under the plan proposed by Secretary Espy, NAL will join USDA's Agricultural Research Service (ARS), Extension Service (ES) and Cooperative State Research Service (CSRS) to form the Agricultural Research and Education Service. With the reorganization, each of the four current USDA agencies would cease to exist as separate agencies.

This is among numerous changes to USDA outlined by Secretary Espy in a September 7 speech before USDA employees in Washington, D.C.

Further details are not available.

It started out to be another normal day in the National Agricultural Library's Special Collections, Alan Fusonie indicated: several users, who knew what they wanted, had arrived; there were a number of interlibrary loan photocopy requests to fill; two magazine writers would be coming to look for photographs; and a staff meeting had been scheduled. About mid-morning, Anne Effland, historian with the Economic Research Service, arrived to search the Archives of the Agricultural History Society for copies of that organization's constitution by-laws. Effland began looking through the collection.

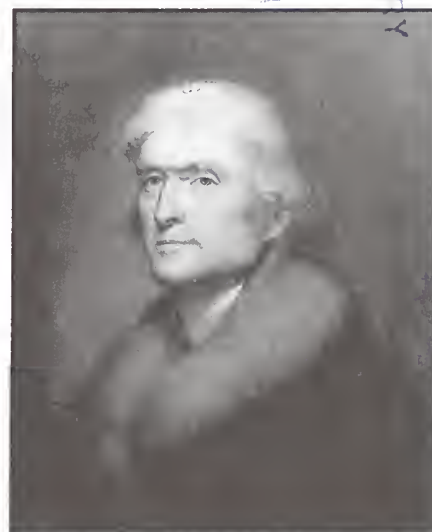
"I perused the first few boxes myself," Fusonie said, "and came across the name file Everett Edwards."

Edwards (1900-1952), had been former historian with the Division of Statistical and Historical Research with the USDA Bureau of Agricultural Economics and Editor of *Agricultural History* from 1927 to his death.

Fusonie continued: "I remembered having seen four boxes of Everett Edwards Papers which had not yet been processed. As a long shot I recommended that Effland might want to open the Everett Edwards Files as an another possible source for finding copies of the by-laws. At this point, I returned to my office."

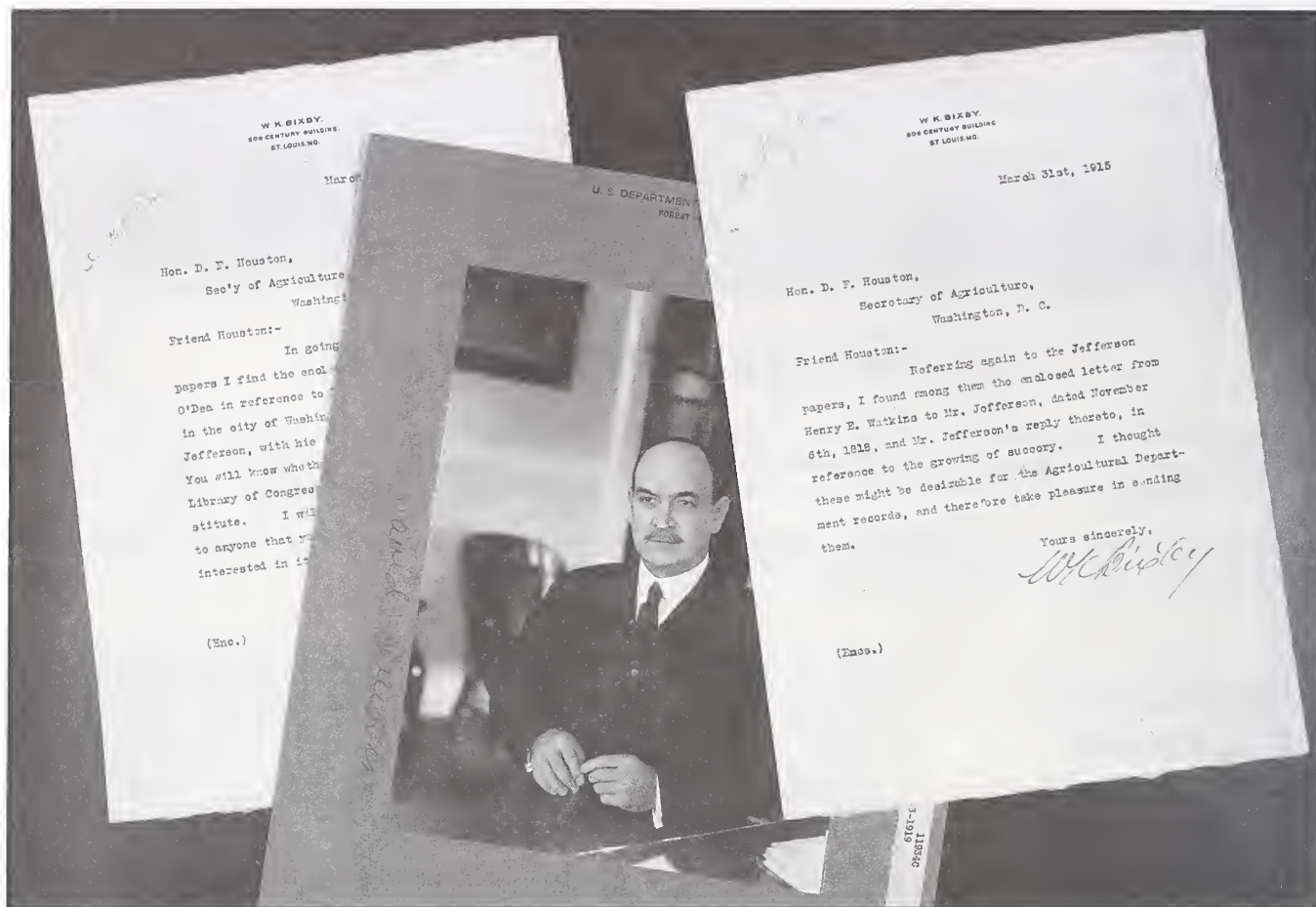
Sometime before twelve o'clock Effland returned to Fusonie's office with a most unusual bad news—good news scenario. Although she had not found the Agricultural History Society records, she did discover in the Edwards Papers eleven agriculturally-related letters, to and from Thomas Jefferson written over a thirty-three year period from 1786-1819.

Speaking of her initial reaction to finding Jefferson's letters, Effland said, "It's thrilling ... looking at a piece of paper he was writing on—it's this very close



Thomas Jefferson  
Photo of James L. Dick's copy [c. 1858] of Rembrandt Peale's second life portrait of Thomas Jefferson.

Photo courtesy of Monticello/Thomas Jefferson Memorial Foundation.



Secretary Houston and letters from W.K. Bixby conveying the Jefferson correspondence to the Department of Agriculture.

connection to a political figure that I have admired."

The letters included three from Jefferson concerning "millet seed," "melon seed," and "scuicory" [chicory] as well as a letter from Lord Sheffield, President of the British Board of Agriculture, commenting on Jefferson's invention of a "mould board."

Filed in a formal document case, these letters were accompanied by provenance correspondence indicating they were a gift to the Secretary of Agriculture, David Houston (1866-1940), from W. K. Bixby in the early part of the 20th Century. (See photo of Houston and Bixby letters on page 2.)

As historians, we shared great excitement over this discovery. Call it a guiding hand, call it what you will, but this is one instance of a truly remarkable set of fortunate circumstances. The National Agricultural Library now

has the timely opportunity to give these letters improved preservation, access, and awareness during the celebration this year of Thomas Jefferson's birth, the two hundred and fiftieth anniversary. (See also photo of Monticello on page 3.)

As we read these wonderful handwritten letters, we are reminded of Jefferson, the scientific yet practical farmer. His remarks to John Jay in a letter of August 23, 1785, have become one of the most popular quotes in American agriculture, "Cultivators of the earth are the most valuable citizens..." For Jefferson, agriculture was a science of the first order and Monticello became a kind of experiment station; it was there that he corresponded with leading agricultural writers and societies throughout the country and around the world. Following are brief historical settings and photo reproductions of the following

four letters: Richard Peters to Thomas Jefferson, March 13, 1794 (see page 3); Lord Sheffield to Thomas Jefferson June 23, 1801 (see page 5); Henry E. Watkins to Thomas Jefferson, November 6, 1818 (see page 4); and Thomas Jefferson to Henry E. Watkins, November 27, 1818 (see page 4).

The handwritten letter (see page 3) from Richard Peters, a farmer residing outside Philadelphia, and a member of the Philadelphia Society for the Promotion of Agriculture, dated March 13, 1794, expresses concern and praise for agricultural pursuits, the possible impact of ongoing foreign conflicts, and his preference for rural over city life. (See also title page of Peters' book on page 6.)

Peters' letter was written during a period when the influence of the French Revolution was causing an ever-widening disagreement between Thomas Jefferson, Secretary of State,



and Alexander Hamilton, Secretary of the Treasury. When Jefferson became Secretary of State in 1790, his disagreements with Hamilton included not only foreign policy but also fiscal policy, national debt, interpretation of the "necessary and proper" clause of the Constitution, and efforts to make manufacturing and urban life more important than farming. Jefferson, finally tiring of his continuing conflict with Hamilton, tendered his resignation as Secretary of State in December 1793. His election as President in 1800 has been interpreted as a protest by the agricultural sector against the unfair influence of commercial and banking interest in national politics. As President, Jefferson promised to preserve the government credit, encourage both agriculture and commerce, and pay off the national debt.

Four months later, from his beloved Monticello, Jefferson, on April 25, 1794, wrote to his good friend George Washington that at this point in his life, farming seemed far more important to him than it had during his youth. Today, as one pages through Jefferson's *Garden Book* and sees such records as varieties planted and sowing times, spanning more than 58 years, one experiences a sense of connection with his strong personal interest in agriculture. Throughout his life, he continually exchanged seeds with correspondents, both the famous and the ordinary. He saw so much potential in the possibilities of discovering new varieties of plants from the Lewis and Clark Expedition that he sent Meriwether Lewis to Philadelphia to study botany under Benjamin Barton Smith.

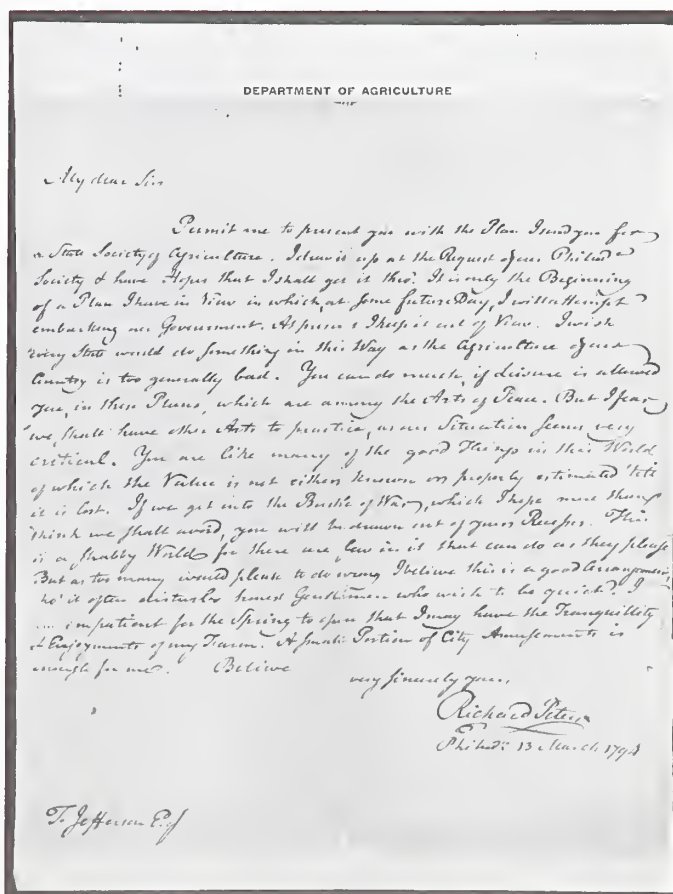
Jefferson's letters to and from Henry E. Watkins (see page 4, and portrait, page 5) are typical of his agricultural correspondence. They document Jefferson's exchange of useful plant and seed information as well as actual seeds. Henry E. Watkins (1782-1856) was a leading lawyer, small farmer, and veteran of the War of 1812, who resided in Prince Edward County, Virginia. He was a member of the Southside Agricultural Society and developed an apple known as the Goosepen. Watkins helped establish the town of Farmville and served on the committee to locate the University of Virginia, founded by Thomas Jefferson.

Jefferson stands out clearly as one of the men of his time who championed the importance of science to agriculture. He saw improvements in the plow as essential to improvements in soil preparation. For most of the population in 1790, the shape of a plow and its power source determined the size of a field and the condition of its soil. As early as 1788, Jefferson conceived of a mould board based on mathematical principles. He established a uniform design, unique in simplicity of construction, to be used by plow makers and farmers everywhere. Sometime after 1793, he sent models to the French Academy of Science (see page



photo by E.S. Shipp, Forest Service Photographs, NAL Special Collections

Jefferson's home, Monticello, in 1932, over 60 years before the current celebration of the 250th anniversary of Jefferson's birth.



Letter from Richard Peters to Thomas Jefferson regarding agriculture and other matters.

Dear Sir

Your letter of the 10th inst. has just been received and I now with pleasure send you a volume of letters as I mentioned to our colleagues at the Gap, I had forgotten which of them expressed a willing ness to try this plant, and therefore I have waited for their application having taken care to have a plenty of seed saved.

Sow the seed in rich beds, as you would tobacco seed, and take the advantage of good seasons in the spring to draw & transplant them. The ground should be well prepared by the plough, I have generally set the plants 18" or 2' apart every way, to give room for several seedlings the 1<sup>st</sup> summer, for during that they are too weak to contend with the weeds, after that they will not be in danger from weeds, do not cut the plants the 1<sup>st</sup> year that they may shade their seed and fill up all the intervals, the growing of sheep destroys the plant. It is generally of enormous produce, and is a tolerable salad for the table in the spring, somewhat like the lettuce, but earlier.

The warm spring both proved extremely injurious to my health. I have been very poorly ever since, but within a week past have got on horseback, altho' not yet entirely well. Accept my friendly salutations & assurances of great esteem and respect.

Henry E. Watkins

Dear Sir

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Henry E. Watkins

Henry Watkins' letter to Thomas Jefferson regarding succory [chichory] seed, etc.

Jefferson's reply to Watkins giving cultivation and usefulness tips, plus a note on his health.

5) and the British Board of Agriculture. The letter from Lord Sheffield to Thomas Jefferson on March 24, 1806 (see page 5), acknowledges the importance of his mould board invention. (See also photos of mould board & plow models, pages 5-6.)

More than ten years later, Jefferson, in a March 3, 1817, letter to George W. Jeffreys, Esquire, of North Carolina, revealed his humble feeling about his scientific efforts in agriculture: "Poor as I am in the practice of Agriculture, and not rich in theory, I can do no more than prove my wishes to be useful..."

The USDA Office of Public Affairs distributed a news release announcing the discovery of the Thomas Jefferson letters in the NAL Collection. It had been prepared by NAL's public affairs officer, Brian Norris, who was both surprised and delighted by the response it generated.

"Media reaction to the release was swift indeed. The event has received

major national coverage through all the major outlets!" Norris said. Among them were the following:

- Associated Press—An AP reporter interviewed NAL Director, Joseph H. Howard and Alan Fusonie, expanded the story and released it twice over the AP wire service. The story was picked up and used by *The Washington Post*, *The Washington Times*, *The Boston Globe*, and others including *The Altis*, *Oklahoma Times Democrat* [Joe Howard's sister called to let him know] and *The Annapolis Capitol*. While on vacation in Alaska, Joe Swab [ALIN editor] saw the story in the *Anchorage Daily News*, and Carol Singer, a reference librarian at NAL's D.C. Reference Center said a relative had seen the story in [Stars and Stripes] Germany. Most of these stories gave prominent mention of the National Agricultural Library.
- National Public Radio interviewed

Joe Howard and ran the story on its "All Things Considered" program.

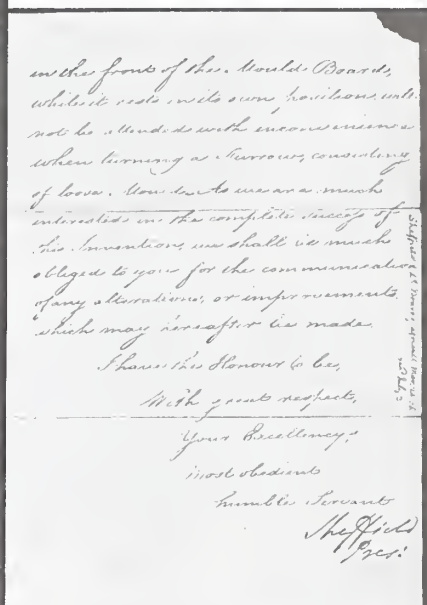
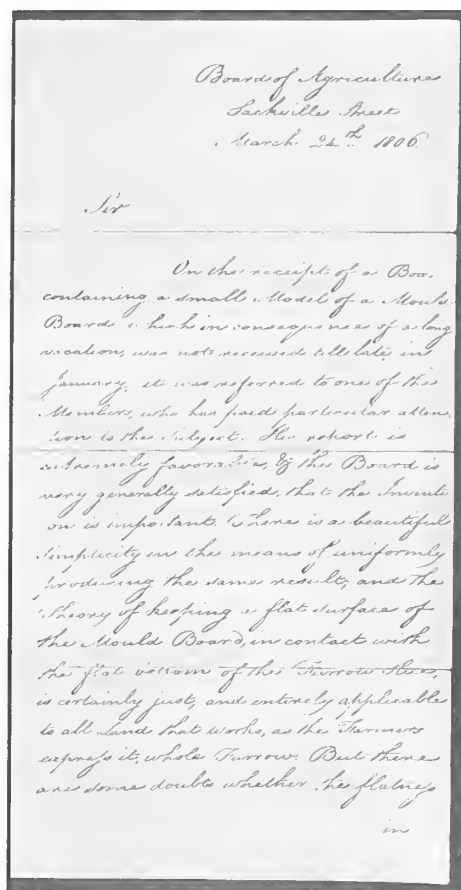
- Paul Harvey mentioned it several times on his nationally syndicated "Rest of the Story" radio show.
- A CCN television crew came to NAL, videotaped the letters, held an interview with Alan Fusonie, and ran the story on their national news broadcast.
- Texas Agribusiness Network (of 60 radio stations in Texas) interviewed Joe Howard and broadcast the story over their network.
- CBS-Radio News ran a story on their national broadcast.
- USDA Broadcast News produced a video on the letters (featuring interviews with Alan Fusonie and Anne Effland) which they released to television stations nationwide Labor Day week. They also did several stories for their daily radio news program.





(Above) Henry E. Watkins as the distinguished elder gentleman.

(Right) The two pages of Lord Sheffield's letter to Thomas Jefferson praising Jefferson's invention of the mould board and expressing interest in future improvements.



These important letters are now receiving appropriate care in the Special Collections of the National Agricultural Library. But what about the unpublished letters, reports, and documents created by both prominent and unknown individuals in the field of agricultural and biological sciences? Some of their records may be located in the unprocessed materials still accumulating here at NAL through exchange arrangements and donations. The Library's collection of outstanding and valuable works has always been enhanced through donations and gifts by individuals and private organizations. Upgrading the processing and preservation efforts here at NAL would be a fundamental investment both in making the best use of currently held resources and in encouraging future donations. Ultimately, an improved ability to care for and make available NAL's collections to researchers and educators will add much

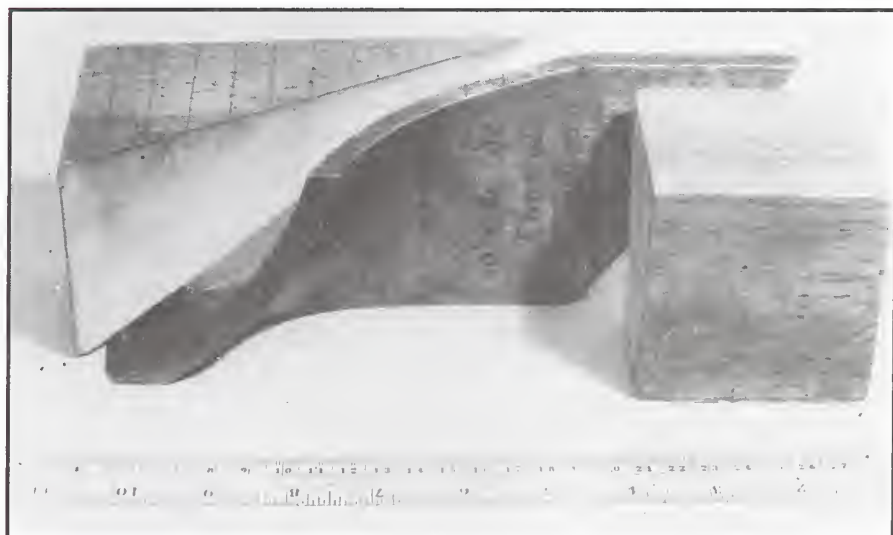
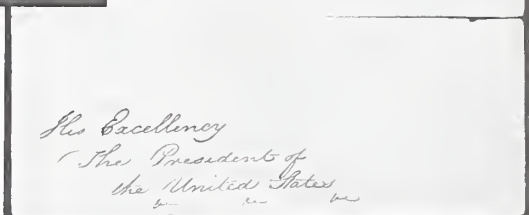


photo courtesy of Smithsonian Photo Archives and NAL Special Collections

Photo of the mould board model which Thomas Jefferson sent to France. A similar model sent to the British Board of Agriculture is the subject of the letter from Lord Sheffield.

For *ALIN* readers who did not see the original Associated Press story in their local newspapers, here it is slightly modified.

## Thomas Jefferson Correspondence Surprises Agricultural Library Staff

Associated Press

Washington — The National Agricultural Library got a shock recently when letters by Thomas Jefferson turned up among hundreds of thousands of documents that the library staff does not have time to examine.

The 11 pieces of correspondence, from 1786 to 1819, were tucked away and forgotten among the papers of a long-retired Agriculture Department historian.

The only reason they came to light a month ago: An Agriculture Department researcher came across them while combing files for other material.

Unexpected finds are “a chronic problem; we don’t always know what we have,” says Joseph Howard, Director of the National Agricultural Library in Beltsville, Maryland.

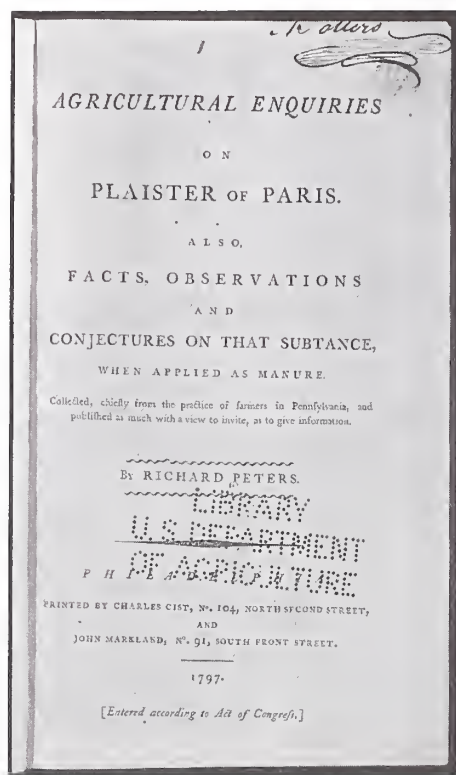
The situation is not unique. The Library of Congress has 28 million items that have not been catalogued—including hundreds of thousands of sound recordings and photographs and 17 million manuscripts.

Letters addressed to Jefferson were also found. In one, an English lord praised the nation’s third president for his iron mouldboard used on farm plows. Jefferson worked out mathematically the shape and angle of the device and introduced the practice of having it cast entirely out of iron. A mouldboard is a curved plate attached to a plowshare for turning over soil.

In one letter, Jefferson thanked an admirer for sending melon seed from Persia. In another, Jefferson detailed for a farmer the procedure for planting chicory seed.

Regarding the mouldboard plow, the British Board of Agriculture “is very generally satisfied that the Invention is important,” Lord Sheffield of the British board wrote Jefferson on March 24, 1806.

As for the chicory, “sow the seed in rich beds, as you would tobacco seed, and take the advantage of good seasons in the spring to draw & transplant them,” Jefferson wrote, “I have generally set the plants 16.I. or 2F. apart every way, to give room for several weedings the first summer, for during that they are too weak to contend with the weeds.”



Title page of a Richard Peters book known to Jefferson.

to our historical understanding of agriculture and rural life.

[Photos used with these stories on the Jefferson letters were provided by NAL Special Collections with additional credits as appropriate.]

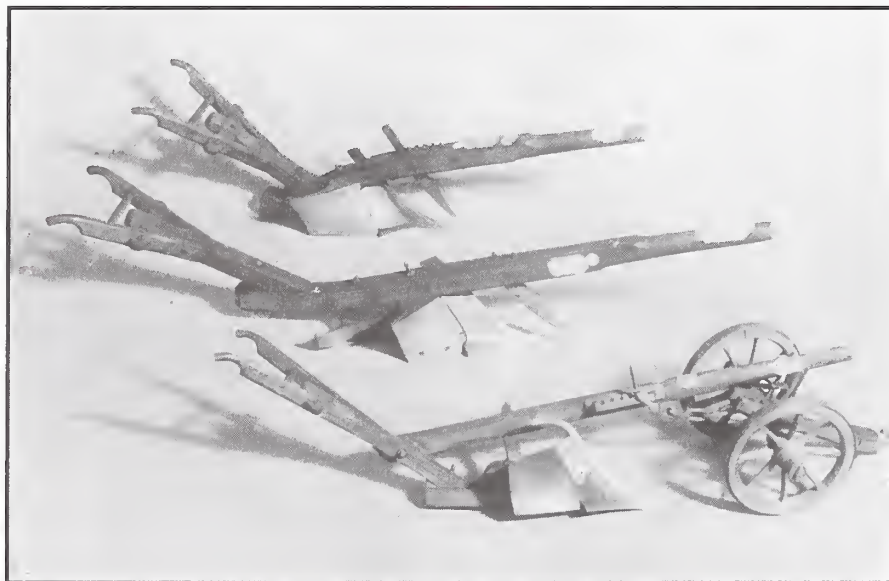


photo courtesy of Smithsonian Photo Archives and NAL Special Collections

Patent models of plows reflecting Thomas Jefferson's mouldboard concept



The letters show the application of science to agriculture and present "a wonderful picture of the practical side to one of the country's greatest men," said Alan Fusonie, head of the library's special collection section.

They also show that Washington has not changed much in 200 years. Among the correspondence: letters from two job seekers to the newly inaugurated president.

"Should you think me worthy of an appointment, a letter left at the post office will meet me," a surveyor wrote on March 7, 1801.

A garden designer wanted to lay out public gardens in Washington.

"AS you have seen some of the Beautifull Gardens of Europe I should Be Happy to Do Business," the garden designer wrote Jefferson—who had lived in France from 1784 to 1789, first negotiating commercial treaties for the new nation and then as the minister succeeding Benjamin Franklin.

[There is no indication in NAL's letters whether or not Jefferson gave the two job seekers work.]



## Young Student User of NAL Wins Science Award

Ten-year-old Kari Linstrom of Beltsville, Maryland, gives a lot of credit for her county award-winning science project to resources of the National Agricultural Library and guidance in using the resources from NAL nutritionist Shirley King Evans. Kari, who entered sixth-grade at the Beltsville Academic Center school this fall, developed a science project on nutrition that won the grand prize for her grade level at the Prince George's County Science Fair earlier this year. Kari developed her science project on low-fat baking.

For her project Kari had classmates taste-test brownies and gingerbread cookies she baked using fat (oil and shortening) and without fat. In the fat-free brownies and cookies, Kari substituted pureed prunes and applesauce for the fat called for in the standard recipes. Kari did not tell her classmates which sweets they were eating; then she asked which tasted best.

"Shirley helped me with the comparison part and with questions, and gave me other ideas that improved my project," Kari said. "It was great to have her help."

Evans, a nutritionist with NAL's Food and Nutrition Information Center (FNIC), enjoyed the project as much as Kari.

"I had a lot of fun working with her," Evans said. "I was as anxious to see the results of her experiment as she was."

The results indicated to Kari that taste is as important in developing low-fat food items as is good nutrition.

"My classmates preferred the ginger bread cookies made with applesauce over the regular ones, but they liked the regular brownies better than the ones with pureed prunes," she said.

Kari is glad she found out about NAL's Food and Nutrition Information Center. "My public library referred me to the National Agricultural Library for more information on nutrition, and Shirley had plenty," she said.

Kari thinks she could be using NAL again in her future. She is currently thinking about a career that "somehow involves both nutrition and working to save the rain forests."

As Shirley Evans pointed out to Kari, both of these subjects, and thousands more, are covered extensively in the National Agricultural Library, which is the largest agricultural library in the world.

For additional information contact Shirley King Evans at (301) 504-5414, TTY: (301) 504-6856, Fax: (301) 504-6409, Internet: skevans@nalusda.gov

Or write to:

Shirley King Evans  
Food & Nutrition Information Center  
National Agricultural Library, Room 304  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

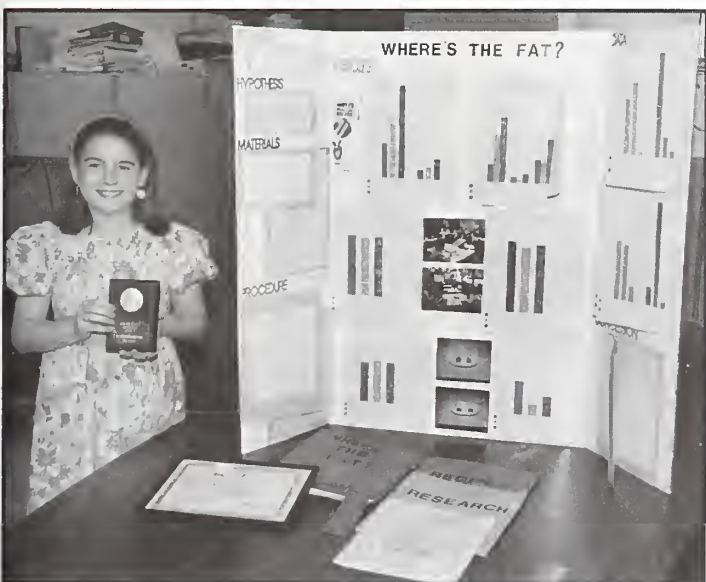


photo: J. Swab

Kari Linstrom and her award-winning fat-free nutrition project.

## NAL Receives Rare Set of Plant Name Index Cards

The Systematic Botany and Mycology Laboratory of the USDA Plant Sciences Institute has donated to the National Agricultural Library a complete set of rare Gray Herbarium index cards, which help botanists keep track of the scientific names of thousands of plants. Dr. Amy Rossman, Research Leader of the Laboratory, made the donation which reference librarian Jerry Rafats described as an "invaluable addition to the NAL collection."

Rafats explained that keeping track of thousands of plant names has always been a problem for botanists. In fact, Charles Darwin became so frustrated with the difficulties of communicating with fellow scientists around the world because of a lack of common reference sources for plant names that he personally endowed the famous Index Kewensis. As serious study of plants in the western world gained momentum in the last half of the nineteenth century, a similar need was felt by botanists in the new world. In 1891 this led to the creation of the Gray Herbarium Card Index (Gray Cards), which were developed to be used in conjunction with the Index Kewensis and included literature dating back to 1886.

The Gray Cards are an index of all the botanical names, of specific rank and below, of phanerogams and vascular cryptogams native to the new world. Bibliographic information is included also. At present there are more than 300,000 cards. The Gray Cards are the only index that includes subspecies, varietal, and form names of botanical species that are especially valuable to taxonomists and systematists, Rafats said.

Josephine A. Clark, the USDA Librarian in Washington, DC, began the Gray Cards in 1891. She prepared a list of species in North America, and, when urged to include all plant species in the New World, expanded the list with the assistance of Mary Day, Librarian of the Gray Herbarium, Harvard University. They distributed the list to botanists and other scientists as

cards. Twenty installments beginning in 1894 and continuing until 1903 amounted to about 28,000 cards.

In 1903, Day and the Gray Herbarium assumed full responsibility for the Gray Cards. Since then, a number of different individuals with the Gray Herbarium have compiled and edited the cards. In 1985, the preparation of the Gray Cards was computerized. In 1986 and 1987, the cards were distributed on microfiche.

In 1968, G.K. Hall and Co. of Boston published an offset copy of issues 1-251 of the Gray Cards in ten folio volumes. In 1985, the last issue of cards, number 303, was distributed. The Gray Cards are no longer issued in hard copy and a complete set is rare.

Rafats suspects that one day the information contained in the cards will be converted to a form retrievable by computer, making them even more valuable and useful.

In the meantime, Rafats said that it is fitting that the National Agricultural Library have a complete set of the cards.

"Josephine Clark, the USDA Librarian who started the cards, was the equivalent of the present-day NAL Director. It's like the cards have come home," Rafats said.

For additional information contact Jerry Rafats at (301) 504-5204; TTY: (301) 504-6856; FAX: (301) 504-7098; Internet: jrafats@nalusda.gov

Or write to:

*Jerry Rafats  
Reference & User Services Branch,  
Room 111*

*National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351*



photo: J. Swab

**Eileen McVey**

## Hanfman Selected for COMSCI Fellowship



photo: J. Swab

**Deborah Hanfman**

Deborah Hanfman, Coordinator of the Aquaculture Information Center (AIC), has been selected as a Fellow in the Department of Commerce Science and Technology Fellowship Program (ComSci) for 1993-1994. She will begin her ten month program on September 13, 1993.

Hanfman will work in the Executive Office of the President's Office of Science and Technology Policy (OSTP). This is a very important office that has influence on the direction the government will take regarding science and technology policy.

During Hanfman's 10-month absence, an Acting Coordinator will be appointed to manage the Aquaculture Information Center. Until that appointment is announced, Eileen McVey of the AIC staff will be handling the business of the center as the temporary coordinator.

Hanfman is the third NAL employee to be accepted into this career development program. Mary Laszanyi, Coordinator of the Agricultural Trade and Marketing Information Center, completed her fellowship in July 1990, and Jean Larson, Coordinator of the Animal Welfare Information Center, is completing a fellowship currently in September 1993.

— Robyn Frank



# International Collaborative Research Program

The United States Department of Agriculture's Office of International Cooperation and Development (OICD) established the International Collaborative Research Program in 1982 to respond quickly to a variety of U.S. agricultural and forestry research challenges. American scientists work with foreign researchers on projects directed toward potential threats to and/or opportunities for U.S. domestic agriculture and export markets.

Targeting research that benefits both the U.S. and cooperating countries increases U.S. scientists' access to foreign expertise and technology, environmental conditions, and exotic pests and diseases that may threaten U.S. agriculture. Scientists in the United States and the cooperating country conduct research jointly.

The Research and Scientific Exchanges Division (RSED) of OICD administers this program. Up to \$20,000 a year for one to three years, with a maximum of \$60,000, is available to support U.S. researchers representing USDA agencies, universities, and private non-profit agricultural research organizations. This catalytic funding supplements the direct costs of research associates, supplies, equipment, and international travel. Foreign scientists on the joint projects obtain funding from their institutions.

Proposals for the International Collaborative Research Program are accepted throughout the year. The majority of the research awards are made in November.

Requests for proposal guidelines should be directed to:

*Mrs. Gloria D. Otley  
International Research Program  
USDA/OICD/RSED  
Room 3230 South Building  
Washington, D.C. 20250-4300  
FAX: (202) 690-1955*



## "Meta-Tools" For Enhanced Access to Global Change Multiple Distributed Metadata Directories and Data Collections

by Robbie Rand  
Information Systems Division, NAL

The United States Global Change Research Program (USGCRP) was established to observe, understand, and predict global change and to make its results available for use in policy matters. Activities of the USGCRP are coordinated by the Committee on Earth and Environmental Sciences (CEES), as prescribed by the Global Change Research Act of 1990. Because data and information are of fundamental importance to the USGCRP, the CEES published a program plan in which members committed to work with each other, with academia, and with the international community to make it as easy as possible for researchers and others to access and use global change data and information. Towards this end, agencies participating in the USGCRP are organizing the Global Change Data and Information System (GCDIS) which takes full advantage of the mission resources and responsibilities of each agency and links the services of these data and information resources to each other and to the users.

These interagency activities, including the GCDIS, are fully coordinated

by a subcommittee of the CEES, the Interagency Working Group on Data Management for Global Change (IWGDMGC).

The IWGDMGC, GCDIS Catalog System Subgroup (CSS) and the Library Subgroup (LIS) have been discussing the need for improved Global Change Master Directory (GCMD) keyword access. It is agreed that better and more accurate access is critical to the success of the research agenda. In January 1993, the CSS formally requested assistance by asking the LIS to develop a keyword/thesaurus white paper with recommendations.

Librarians and information management professionals have recognized the need to assist researchers in the complex multidisciplinary research areas. Traditionally, they have developed and applied tools to assist in the storage and retrieval of information. In response to the vast amounts of data and information now being collected, additional retrieval tools are needed. These additional tools can be viewed as "meta" tools enabling and extending the full use of existing tools.

The LIS responded by presenting four options:

1. Elimination of most or all of the DIF keywords;
2. Development of a "full blown" thesaurus/lexicon;
3. Expansion of the existing DIF vocabulary;
4. Development of alternatives to controlled keywords.

The LIS recommended options 2 and 4, whether independently or in combination. In its opinion, implementing these options would offer enhanced and accurate access to datasets with the greatest flexibility.

The National Agricultural Library, USDA, offered to coordinate an interagency pilot project to implement these options. It is the intention to follow the



mandates of the recommended options as closely as possible.

#### Summary of the options:

*...expand the existing GCMD controlled vocabulary at all levels by using a computerized, interactive, integrated knowledge base that is a semantic network combined with natural language understanding. This is achieved by linking together existing distributed vocabularies and dictionaries, using keyword mapping, and by adopting other mechanisms to provide concept-based searching. The result would be enhanced access to multiple, distributed metadata directories and data collections, without ownership, using natural language queries. The success of this approach will be determined, in part, by the rate of development and the direction of emerging semantic networking technology. The process could be accelerated by procuring currently available off-the-shelf client/server software which adheres to common standards for this technology. Additionally, a user's group will be designated to work actively with the developer.*

ConQuest Software, Inc., is the basis of the project. ConQuest has an existing commercially available text and image retrieval system which uses natural language processing techniques, word meaning processing, and concept based information retrieval built from many electronically available dictionaries and thesauri. The knowledge base contains over 340,000 word meanings, connected by over 3 million links. Additionally, ConQuest has provided for the extension of the delivered knowledge base. ConQuest is currently working under a number of government contracts, with particular emphasis on medical applications through agencies such as NIH, and other organizations.

The database will be comprised of data contributed by the participants. New terminology will be added to the ConQuest knowledge-base for use during the project.

Participants are sharing the cost of the project. Participants include: Argonne Labs, Cambridge Scientific Abstracts, CIESIN, DOC (NOAA/EIS, NOAA/Library, NTIS), DOD (DTIC), DOE, (Oak Ridge Labs), DOI (USGS), EPA, Library of Congress, NASA, Roper Public Opinion Poll, USDA, University of Maryland,

Department of Veterans Affairs. Participants will provide data, new terminology, and vocabulary expertise within their disciplines as well as system feedback. When complete the system will be evaluated by the participants both on-site as a stand-alone system and over the Internet using Z39.50. The adherence and support of standards is essential to this development and application.

The project formally begins in August and will conclude before the end of the calendar year, 1993.

For additional information contact Robbie Rand at:

(301) 504-6684;

TTY: (301) 504-6856;

FAX: (301) 504-7473

Internet: rrand@nalusda.gov

Or write to:

Robbie Rand

Information Systems Division,  
Room 013

National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

## National Agricultural Text Digitizing Program Update

by Judith A. Zidar  
NATDP Coordinator  
Information Systems Division, NAL

### The George Washington Carver CD-ROM.

As mentioned in the June 1993 NAL "Highlights" [in the previous issue of *ALIN*], the National Agricultural Text Digitizing Program (NATDP) has produced the George Washington Carver CD-ROM. This disc contains microfilm reels 1, 2, and 48 of a 67-reel set on Dr. Carver from Tuskegee University, along with the full text of Tuskegee's *Guide to the Microfilm Edition of the George Washington Carver Papers at the Tuskegee Institute*.

With Tuskegee University's permission, the microfilm was converted to electronic images (one image per

frame) using special scanning equipment. The scanning, performed by NATDP vendor, Science Applications International Corporation, was part of a USDA Science and Education evaluation study. The database, which consists of images plus descriptive headers, includes Dr. Carver's private and professional papers, letters, teaching notes, tax returns, and drawings of seeds, plants, and inventions. The material is visually interesting and provides a closeup, personal view of an historical figure in American agriculture.

The retrieval software (included on the disc) is *Windows Personal Librarian* (WPL) from Personal Library Software of Rockville, Maryland. This software runs on an 80386 microcomputer or better, 4 MB memory and 4 MB hard disk space, MS-Dos 3.3 or higher, MS-Windows 3.0 or 3.1, mouse, and CD-ROM player with Extensions 2.0 or later.

The CD-ROM is available free of charge by sending your request with a self-addressed label to:

Judith A. Zidar

NATDP Coordinator

USDA, NAL, ISD, Rm. 013

National Agricultural Library

10301 Baltimore Boulevard

Beltsville, MD 20705-2351

NAL gratefully acknowledges the generosity of Tuskegee University for permitting us to use the George Washington Carver microfilm for this project.

### Food Irradiation 1 CD-ROM.

NATDP has also completed the Food Irradiation 1 CD-ROM, a revision of an earlier disc containing page images in a proprietary format. In this revised version, page images are standard Group 4 TIFF that can be displayed on any computer monitor, and the bibliographic records have been enhanced for better retrieval. The database is made up of 94 non-copyrighted publications (over 5100 pages), including research reports, surveys, and conference proceedings conducted by or for the U.S. Army Quartermaster Corps in the 1950's and 1960's. They are part of a large collection that was donated to NAL, and which will be placed on CD-ROM over the next two years.

The WPL retrieval software included on the disc has been upgraded by Personal Library Software to allow an entire record, or an entire publication, to be printed with one command. Previous discs required each image to be printed separately. Because of this upgrade, the software must be run under MS-Windows 3.1 (not 3.0). Other system requirements are the same as for previous NATDP products (see above).

This disc is available free of charge by sending your request with a self-addressed label to:

Sandy Facinoli, Coordinator  
Food and Nutrition Information  
Center, Room 304

National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351

Please note that if you are requesting multiple free NATDP CD-ROM titles, you can send your requests, plus a mailing label for each disc, to Judith Zidar at NATDP, who will see that your requests are filled.



## CALS Gets New Email & Mailing Addresses

As a result of a recent reorganization of NAL space, the Current Awareness Literature Service (CALS) moved from the 5th Floor of the NAL Building to the Ground Floor. Anita Speight is in Room 004. Mail to CALS should now be addressed as follows:

Current Awareness Literature Service  
USDA/NAL/ISD/DAB, Room 013  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

CALS telephone numbers remain the same:

(301) 504-6859  
TTY (301) 504-6856  
FAX: (301) 504-7473  
FTS2000Mail:  
IA12NALCALS  
Internet:

cals@nalusda.gov

The Current Awareness Literature Service is available at no direct cost to most USDA personnel. To date over 1,200 people are utilizing CALS. The

bibliographic service is an on-going computer-based literature system designed to keep researchers and others posted on current literature in their fields. CALS searches include 13 databases: *Aquatic Sciences and Fisheries Abstracts*; *Biological Abstracts and Biological Abstracts/Reports, Reviews, and Meetings*; *Chemical Abstracts*; *Engineering Index (COMPENDEX)*; *Food Science and Technology Abstracts*; the *AGRICOLA* file of the National Agricultural Library; *Life Sciences Collection*; *Government Reports Announcements (NTIS)*; *World Textile Abstracts*; *Water Resources Abstracts*; *Zoological Record*; and the full **Commonwealth Agricultural Bureaux (CAB)** file comprised of multiple abstract journals such as *Review of Applied Entomology*, *Horticultural Abstracts*, *Soils and Fertilizers*, *Field Crop Abstracts*, *Nutrition Abstracts*, etc. Retrospective or cumulative file searching, some dating from 1969-1970, is available for all of the databases upon request.

Please contact Anita Speight at CALS if you have any questions about developing a profile, or if you would like a copy of the *CALS User's Guide*.

—Anita Speight

## COMPACT INTERNATIONAL AGRICULTURAL RESEARCH LIBRARY CD-ROM

by Judith A. Zidar  
Coordinator, National Agricultural  
Text Digitizing Project, NAL

The Consultative Group on International Agricultural Research (CGIAR) and the World Bank have begun shipping the 17-disc *Compact International Agricultural Research Library: Basic Retrospective Set 1962-1986*, also known as the *CIARL BRS*. Consisting of one master CD-ROM and 16 text/image discs, the *CIARL BRS* contains documents donated by 20 CGIAR and associated agricultural research centers from around the

world. Every document was nominated by the contributing research center as a much-used, much-consulted reference work. The documents come in 10 languages, but most are in English, Spanish, and French. The interface prompts, text messages, and user aids are provided in all three of these main languages.

*CIARL BRS* is an outgrowth of the pilot disc, *Food, Agriculture and Science (FAS)*, produced by the CGIAR in 1989. Like the FAS disc, this set contains a broad range of publications—books, field guides, reports, manuals, conference proceedings, and more—all in word-level-searchable full text. There are 1,350 titles, more than 190,000 pages of research materials, in this database. In addition, there are over 50,000 monochrome images and 1,900 color images, because all graphics and photographs in the documents are included as well.

Fast, easy access is provided by K-Aware2 Retrieval Software (included on the master disc), from Knowledge

Access of Mountain View, California. System requirements include an IBM-compatible computer with hard disk (the faster, the better; but this software will run on an XT), 550K of free memory, CD-ROM player, Extensions 2.0 or higher. A graphics monitor is required for image display, and color images will display on EGA or VGA color monitors.

NAL staff beta tested the database, and the World Bank and the CGIAR have generously provided the Library with a complimentary copy of this valuable reference set. It will be added to the Collection and made available to staff and patrons for onsite use.

The *CIARL-BRS* is available at a cost of \$1,950 (US) plus shipping and handling. In the U.S., orders should be sent to the following:

World Bank Publications  
Box 7247-8619  
Philadelphia, PA 19170-8619  
USA

Telephone: 202-473-1155  
Fax: 202-676-0581





## ALF from the Internet

At ONE BBSCON 1993 (Online National Expositions Bulletin Board Systems Conference) in Colorado Springs, the Business and Technical Managers of FedWorld bbs, Bob Bunge and Ken Royer, presented a talk on government bbs operations with NAL's Karl Schneider, Sysop of NAL's ALF bbs, Erik Delfino, Network Librarian for Fedlink, Bob Davis of the Naval Surface Weapons TEAM NET system, and Bill Curdy of Summit Software Service.

During the discussions, the FedWorld folks announced that Telnet access to the FedWorld bbs (dial 703-321-8020) is now available. Use the command:

`telnet fedworld.doc.gov`  
from your telnet compatible Internet host site to establish contact with this Department of Commerce (NTIS) in-

formation and gateway service.

Connection to ALF, one of more than one hundred federal bbs systems accessible from FedWorld's gateway, is possible through a Telnet link to Fedworld bbs. This link allows both ASCII and Kermit protocol use for file transfers from ALF via Internet.

Direct modem-to-modem dial-up access to FedWorld also supports ALF connection via the gateway. Login to FedWorld for the first time requires a user to register on FedWorld, then access the Gateway system via the "D" command from the main conference. Entry of another "D" brings up the list of federal systems for selection. Enter "2" to select ALF. After the first registration, a user may enter "D D 2" to make an immediate link to ALF from the main FedWorld menu.

The Fedworld system runs on a bbs software platform called the Major bbs, by Galacticomm. More than forty incoming lines are available. For technical assistance call (703) 487-4608.

ALF is still accessible directly, modem-to-modem, at (301) 504-6510. There are several lines available and the system rolls over to the next line if the one dialed is busy.

The ALF bbs lists a number of other ag-related dial-up bulletin board types of services in the M)ain section's Bulletin #25. Several new listings have been added in the last few months.

For additional information, contact Karl Schneider, NAL Reference Librarian and Sysop of ALF, at:

(301) 504-5113

TTY: (301) 504-6856

FAX: (301) 504-7098

Internet:

`kshcneid@nalsda.gov`

To obtain an "ALF User's Guide," send a self-addressed label with the request to:

Reference Section, Room 111

National Agricultural Library

10301 Baltimore Boulevard

Beltsville, Maryland 20705-2351

— Karl Schneider

## Core Agriculture Literature Project Volume Published with NAL Financial Support

The following announcement of publication of the second volume in the Core Agriculture Literature Project is another milepost in this major national and international effort to identify and make accessible the most significant of the world's agricultural research and writing. Accomplished with an international team of scholars and researchers through the Albert R. Mann Library at Cornell University with financial support of the National Agricultural Library and others, progress has been made toward the goals of guaranteeing the quality of U.S. agricultural collections and bringing Third World collections up to a level neces-

sary to provide support for education and research.

**The Literature of Agricultural Engineering.** Edited by Carl W. Hall and Wallace C. Olsen.

The second of a seven-volume series, *The Literature of the Agricultural Sciences*, this book analyzes the trends in published literature of agricultural engineering during the past century with emphasis on the past forty years. It uses citation analysis and other bibliometric techniques to identify the most important journals, report series, and monographs for the developed countries as well as those in the Third World.

An introductory chapter treats the influence of literature in the agricultural engineering world and is followed by papers on the scope of the profession and the literature in developing countries. Specialists then identify five emerging growth areas in the field and review the literature for each.

This distinctive bibliographic work will be invaluable to agricultural en-

gineers, and will be of major assistance in building institutional resources in the Third World and in helping collectors in developed countries evaluate their collection strengths, measure their journal primacy, and make decisions about preserving historically pertinent literature. A set of compact discs with the full texts of the monographs and the last five years of the journals is planned for use in the Third World.

Carl W. Hall was formerly a deputy director of the National Science Foundation and dean of engineering at Washington State University.

Wallace C. Olsen is Research Associate, Albert R. Mann Library, Cornell University.

432 pages, 8 charts  
ISBN 0-8014-2812-2 \$59.50 cloth  
December 1992

Cornell University Press  
124 Roberts Place, P.O. Box 250  
Ithaca, New York 14851-0250





## ISIS InfoStation Demonstration Project

NAL has installed the VTLS InfoStation as part of a demonstration project to evaluate the potential of using the InfoStation to provide access to full text and images of selected portions of library collections via seamless linkage through an online bibliographic database. The InfoStation, which is a "scholar's workstation" configured for NAL on a NeXT computer platform, serves as a front end to ISIS, NAL's integrated library system, which was also developed by VTLS and runs on a Hewlett-Packard 3000/900 computer. Library patrons can use the InfoStation to search the bibliographic records in NAL's online public access catalog maintained on the HP computer.

Users can also retrieve the full text and images and sound related to those records for which a seamless linkage to a multimedia database has been created by NAL on the InfoStation.

The multimedia text and image database created by NAL's NATDP staff is comprised of materials from three core collections: aquaculture, food and nutrition, and agricultural trade and marketing. NAL also added digitized audio recordings that are linked to the images through hypermedia links to provide voice explanations to selected images in instances where the images were not self-explanatory. A portion of the materials used in the InfoStation database came from digitized materials used in NAL's CD-ROM production while the remainder of the material was scanned from NAL's print collection. The NAL InfoStation database contains approximately 9,000 pages of full text, color images, black and white im-

ages, and audio enhancements linked to selected images. Researchers can also use hypermedia links to annotate the records with explanations or to create new links to other images, sound, or related documents.

For additional information contact:

*Richard Thompson  
Information Systems Division,  
Room 204  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351*

Or call:

*(301) 504-5018*

*TTY: (301) 504-6856*

*Fax: (301) 504-5472*

*Internet:*

*rtthomp@nalusda.gov*

*FTS2000: !a12rtthomp*

*— Richard Thompson*



### New Publications of Note

## Revised Health Resources Guides Available

The National Agricultural Library's Rural Information Center (RIC) is offering two revised resource guides to aid rural community leaders in dealing with problems associated with rural health services.

"Rural Health Services Funding: A Resource Guide" and "Agricultural Safety and Health: A Resource Guide" were prepared by RIC's Rural Information Center Health Service (RICHS) and list publications and audio/visual materials on these subjects. Publication of the guides was supported by the Office of Rural

Health Policy of the U.S. Department of Health and Human Services. The guides were originally made available in early 1992. The revised guides contain updated information.

Included in "Agricultural Safety and Health" is a listing of national and regional organizations working in this area, with addresses and telephone numbers. "Rural Health Services Funding" contains a list of "selected foundations contributing to rural health projects."

"The guides give rural community leaders and health professionals a good start in developing rural health programs," said Pat John, RIC coordinator. "These guides can save hours of research for those looking for background and practical information on rural health subjects."

According to John, "Rural Health

Services Funding" highlights the resources most useful in finding funding for rural health programs, a major challenge facing rural health care providers.

"Agricultural Safety and Health" provides links to information dealing with health and safety risks facing the nation's agricultural workforce. The National Safety Council estimates that as many as 1,300 agricultural workers are killed in farming accidents each year and about 120,000 farmworkers are injured.

The resource guides are available by sending a self-addressed mailing label, with a request specifying the desired guide, to:

*Rural Information Center  
Room 304  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351*

For information concerning rural subjects call:

*1-800-633-7701 (toll free)*

Washington, DC, area and international callers use

*(301) 504-5547*

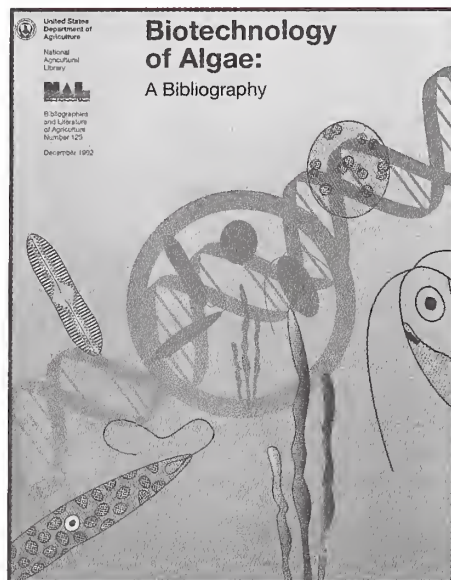
*TTY: (301) 504-6856*

*FAX: (301) 504-5181*

*Internet: ric@nalusda.gov*



# Biotechnology of Algae Bibliography Produced by NAL



The use of algae in biotechnology research is the subject of a bibliography produced jointly by the National Agricultural Library's Biotechnology Information Center (BIC) and Aquaculture Information Center (AIC). *Biotechnology of Algae: A Bibliography* contains citations of literature in the NAL collection covering all aspects of the subject from the commercial use of algae to gene sequencing studies of algae. According to project managers, it "will be invaluable to researchers, industry representatives, government officials, environmental groups, the interested public, and others concerned with algae and biotechnology."

In his preface to the publication, the late Robert Warmbrodt, then BIC coordinator, said, "The use of algae in biotechnology research and in the biotechnology industry is significant. Algae play critical roles as bioreactors for the production of food, chemicals and fuels." As examples, Warmbrodt cited the importance of algae in developing solar energy technology, in biodegradation and bioremediation programs,

and in "the ever-expanding domestic and international aquaculture industry."

The citations included in the bibliography were taken from NAL's AGRICOLA database and from BIOSIS Previews. In addition to the title, author, sources, and an abstract (when available), each citation also includes key subject descriptors and the NAL call number.

To obtain a free copy of the bibliography, send a self-addressed label with the request to:

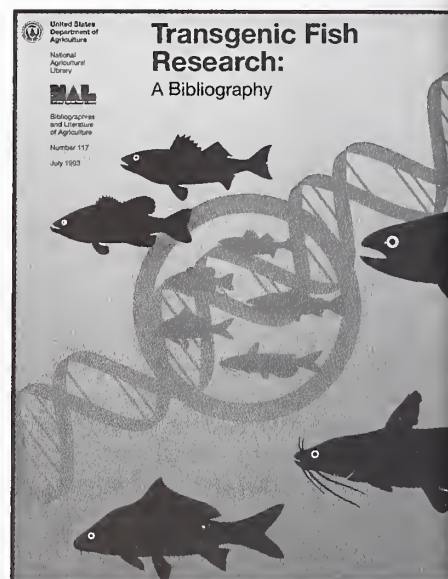
*Biotechnology Information Center  
National Agricultural Library  
4th Floor  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351*

*Telephone: (301) 504-6875;  
[TTY: (301) 504-6856];  
FAX: (301) 504-7098  
Internet:  
biotech@nahusda.gov*



**The field of biotechnology continues to expand rapidly with innovative research, new technologies, and the development of beneficial products for animals and humans. The many disciplines using genetic engineering and molecular biology techniques attest to the suggestion that biotechnology is truly a multidisciplinary field.... In agriculture virtually all of the major plant commodities and animal species such as swine, cattle, sheep, and fish are the subject of biotechnology research.... Numerous species of fresh and marine water algae contribute to both basic and applied research and product development in biotechnology.**

# Transgenic Fish Research Bibliography Available



A bibliography of transgenic research done on freshwater fish is available from the Biotechnology Information Center (BIC) of the National Agricultural Library. The publication, titled "Transgenic Fish Research: A Bibliography," by the late Robert D. Warmbrodt and Virginia Stone, is Number 117 in USDA's *Bibliographies and Literature of Agriculture* series.

In his introduction Warmbrodt stated that transgenic fish research uses "molecular biology and genetic engineering techniques to help develop disease resistance, enhance reproduction, and increase productivity of freshwater fish such as salmon, trout, catfish, and carp. Freshwater fish represent a multi-million dollar industry in the United States...." In addition "the research generated using these organisms contributes significantly to an overall increase in the understanding of the molecular biology, gene sequencing, and gene expression and regulation of freshwater fish. In the broader context, the results also undoubtedly enhance work using unrelated species such as domesticated plants and animals as well as micro-organisms."



According to BIC Coordinator, Dr. Ray Dobert, "This bibliography seeks to aid the research effort by giving scientists a comprehensive list of work that has already been conducted, allowing them to build on this past research."

The bibliography lists 125 transgenic research projects that have been conducted on freshwater fish, and includes abstracts. It is arranged in sections on general aspects of transgenic fish research; gene expression and sequencing; immunology and diseases;

breeding and production; and field release studies—including the current status of the risk assessment and environmental impact of such studies.

To obtain a copy of the bibliography, send a self-addressed label with the request to:

*Biotechnology Information Center  
National Agricultural Library  
4th Floor  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351*

The University of Minnesota participates in two major Interlibrary Loan consortia: CIC (Committee on Institutional Cooperation, includes the Big-10 universities), and RLG (Research Libraries Group). The St. Paul Campus Library participated in electronic transmission of documents phase of the National Agricultural Text Digitizing Project (NATDP) conducted by North Carolina State University. The Library is currently using the ARIEL system to send and receive scanned document images via the Internet.

Mary Mortenson grew up on a farm in western Minnesota, and earned a BA in Art History and MA in Design from the University of Minnesota. She worked on the Minneapolis campus at MINITEX, a state interlibrary loan system. She transferred to the St. Paul Campus Library when the RDDS agreement was first established in the North Central Region in December 1975. She has been active in the Youth Mentoring Institute's mentorship program, working with at-risk high school students and supervising one student from the program each summer in the Interlibrary Loan Office.



## Mortenson Coordinates RDDS Region 4

Mary Mortenson, Head of Interlibrary Loan at the St. Paul Campus Library, University of Minnesota, is the coordinator for the Regional Document Delivery System (RDDS) Region 4 (North Central). This Region serves USDA employees in Minnesota, Montana, North and South Dakota, and Wisconsin. Other Region 4 cooperating institutions and personnel include Bruce Morton at Montana State University, Marianne Farr at the University of Montana, Deborah Saylor at North Dakota State University, Mary Caspers at South Dakota State University, and Jean Gilbertson at the University of Wisconsin, Madison.



Mary Mortenson

photo: T. Wray

As Head of the Interlibrary Loan Department, Mortenson administers borrowing and lending operations. In fiscal year 1992, the department handled more than 23,000 transactions, including nearly 10,000 RDDS requests. Region 4 RDDS Libraries process almost 17,000 document requests annually for USDA personnel. The University of Minnesota Libraries (including Bio-Medical, Science, and Engineering) on both Twin City campuses are accessed to fill RDDS requests.

## Brady and Kaag Coordinate RDDS Region 7

Eileen Brady, Head of Interlibrary Loan, Owen Science and Engineering Library, Washington State University, has coordinated the Regional Document Delivery System (RDDS) Region 7 (Northwest & Intermountain) since 1983. This Region serves USDA employees in Washington, Idaho, Oregon, Utah, and Wyoming, and processes about 6,700 document requests annually. Other Region 7 personnel and institutions include Robert Hook, University of Idaho; Doris Tilles, Oregon State University; Karen Lange, University of Wyoming; and Naomi Imler and Lenna Harding, Washington State University. USDA personnel in Utah are served directly by Washington State University.

Prior to receiving her MSLS from





**Eileen Brady (left) and Cynthia Kaag (right)**

the University of Southern California in 1970, Brady did research for television series including *I Spy*, *Star Trek*, *Gunsmoke*, and *Get Smart*. She has worked as a reference librarian for the Los Angeles and Spokane public libraries, a cataloger/researcher for Disney Enterprises, and Director of the Coeur d'Alene, Idaho Public Library. Her current responsibilities include reference service, user education, collection development, and administering the borrowing and lending operations of the WSU science libraries.

In her free time (and while on sabbatical August 1993-August 1994), Brady is researching and writing a five volume encyclopedia on American television series, is editor of *Focus on Security* (a new magazine on library, museum, and archival security), and occasionally does legal and other research for TV movies such as *John and Yoko: a Love Story*.

Cynthia Stewart Kaag, Head of Collection Development, Owen Science and Engineering Library, is Acting Regional Coordinator and Acting Head of Interlibrary Loan during Eileen Brady's sabbatical. Kaag oversees an acquisitions budget of \$1,370,000. Her responsibilities also include providing reference service and research assistance, and depart-

mental liaison and library materials selection for engineering, agricultural sciences, chemistry, biochemistry, geology, and environmental sciences.

Kaag came to Washington State University in 1986 and is active in the American Library Association's Collection Development and Evaluation Section and Science and Technology Section. She recently published a short bibliography on collection evaluation techniques and presented a paper on "Document Delivery: Where Collection Development and Interlibrary Loan Meet." She is particularly interested in cooperative agreements concerning both coordinated collection development and rapid document delivery.

Before joining WSU, Kaag worked at the Erlangen American School in West Germany and at the Montana State Library in Helena, MT. She earned her MLS at the University of Wisconsin, Madison, after doing graduate work in Scandinavian Studies and Art History, and completing an undergraduate degree in History. She finds her eclectic educational and professional background to be a great advantage in understanding the needs of library users and researchers in all fields.



## **NAL Appoints New Coordinator of Biotech Information**

Dr. Raymond C. Dobert, an agronomist and crop physiologist, has been



photo: J. Swab

**Ray Dobert**

appointed as the coordinator of the National Agricultural Library's Biotechnology Information Center (BIC).

Dr. Dobert came to BIC from the Agronomy Department of the University of Wisconsin-Madison where he conducted soybean research since 1991. Previously he had been a Congressional Fellow and legislative assistant advising on agricultural research, biotechnology, and other farming issues on the staff of Senator Tom Daschle (D-SD).

From August 1985 to August 1990, Dr. Dobert was a National Needs Graduate Fellow at the University of Missouri-Columbia doing research into legume growth regulating hormones. In other work experience, he has served as a bay management specialist in Islip, New York, and as an intern with the St. Lawrence County Planning Office in Canton, New York, where he assisted in developing a county natural resources inventory. In 1984, he spent two months in Kenya as a

researcher with a cattle grazing ecosystem project. Dr. Dobert earned his undergraduate degree in biology at St. Lawrence University in Canton, New York, and his Ph.D at the University of Missouri-Columbia. He is a native of Long Island, New York.

NAL's Biotechnology Information Center provides access to information services and publications covering many aspects of biotechnology, including genetic manipulation theory and

techniques, plant and animal genetics, and food processing. The center has quick access to NAL's huge collection of agricultural materials through the AGRICOLA (AGRICultural OnLine Access) bibliographic database. The telephone numbers, etc., for BIC are

(301) 504-5947

TTY: (301) 504-6856

FAX: (301) 504-7098

Internet: [rdobert@nalusda.gov](mailto:rdobert@nalusda.gov)

— Brian Norris

## In Memoriam: Dr. James M. Gwin

The poultry world was saddened on July 10, 1993, with the death of Dr. James Martin Gwin. "Jimmy," as he was affectionately known throughout the poultry industry, devoted his entire life to the education and promotion of poultry interests.

Born in Blair County, Pennsylvania, in 1906, Dr. Gwin pursued a lifetime interest in poultry to gain national recognition as an educator, administrator, promoter, and one of the world's most persistent collectors of poultry literature. His extensive collection of "poultry papers" and books now resides in the National Agricultural Library. It is recognized as one

of the world's most complete poultry information resources.

Dr. Gwin's education included a B.S. in Poultry Husbandry, University of Connecticut; an M.A., American University; and a Ph.D., Cornell. He served in every phase of the poultry industry; as a military procurement officer in WWII; as a regulatory official in grading and inspection; as a professor of poultry husbandry; as a Director of Extension (University of Maryland); as a marketing manager for a major feed supplier; as general manager of the Poultry & Egg National Board; and as Professor of Marketing (University of Illinois, Edwards-

ville).

Dr. Gwin was a charter member of the American Poultry Historical Society, served as its president (1960-62), and was elected to the American Poultry Hall of Fame in 1977. Gwin's awards and honors would fill a college textbook, and much of the poultry and egg grading system in place today is a result of his groundwork.

Dr. Gwin was married to Helen Woodward, who preceded him in death, and is survived by three children, Gailyn, Geniel (Strock), and Graydan, and a multitude of admiring friends.

— John L. Skinner



photo from "Poultry Times" Portrait Collection, NAL



photo courtesy NAL Special Collections

Part of the 1972 exhibit of materials donated by Dr. Gwin to NAL.





## Visitors

The library continues to receive a large number of distinguished local, national, and international visitors. Among those since ALIN last reported on visitors are the people shown on these two pages.

(Below) On June 3, 1993, Ms. Jiang, Zehui (left), Vice-Chairperson of Anhui Agricultural University [and sister of Mr. Jiang, Zeming, President of the People's Republic of China, led a group visiting NAL. They were received by NAL Director, Joseph H. Howard (center),



and Verna Shen (right) of NAL Cataloging Branch provided a tour of the Library.

photo: M. Silva



photo: J. Swab

(Above) Edgar A. Poe (left), Chief of the Publishing Division of USDA's Office of Public Affairs, accompanied Dr. Yury N. Vavilov, of the Russian Academy of Sciences, Moscow, on a visit to the Library. [Vavilov is the son of Nikolay Ivanovich Vavilov, who was one of the most distinguished figures in Russian and international science in the 20th century and who had visited and worked with USDA and academic agricultural scientists around the U.S. in 1921.] Also accompanying Vavilov was the counselor of the Russian Embassy, Dr. Logvin A. Overchuk. They met with NAL and Agricultural Research Service staff concerning plant genome and other germplasm research and resources, and library technology applications.

(Right) Kate Nevins (on the left) and Liz Bishoff (on the right) of OCLC met with NAL Director, Joseph Howard (center) and NAL staff on database management and common concerns related to making library materials more accessible to users.

photo: D. Starr







photo: J. Swab

(Above) Dr. Toni Bearman (2nd from left), Dean, School of Library and Information Sciences, University of Pittsburgh, and Dr. Jim Williams (right) of the same faculty, met with Pam André (left), Associate Director for Automation, NAL, and Pamela Mason (2nd from right), of NAL's Database Administration Branch, concerning cooperative projects in the development and testing of technology applications in libraries.

(Below) A group of professional staff from the Library of Congress visited NAL for orientation to the library's products and services, with particular interest in new technology applications. Here they are grouped in the demonstration center in the library's lobby.

photo: J. Swab



photo courtesy of V. Shen

Ms. Li, PiQion (center), wife of the Minister of the Chinese Embassy, led a group of Chinese Embassy and Consular staff on a visit to NAL to learn about the library's products and services. NAL Director, Joseph H. Howard (left), provided an overview of NAL's international activities and programs, and Verna Shen of NAL's Cataloging Branch led a tour of the library, including demonstrations of databases and technology applications.



## New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all *QB's* include search strategies. Unless otherwise specified, citations are from AGRICOLA.

The other bibliographic series, including *Special Reference Briefs*, have been researched and produced to meet special needs of clientele of the library and its information centers. Revisions or updates will be announced when produced. Only one copy of a requested title will be sent; however, requesters may make copies. To request a copy of a *Quick Bibliography*, *Special Reference Brief*, or other bibliographic work, circle the desired title(s) below and send your request with a self-addressed label to:

Reference Branch, Room 111  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

## Quick Bibliographies

**Q.B.—93-50.** Rotational Grazing and Intensive Pasture Management, January 1988-April 1993. 148 citations in English. Prepared by Jane Potter Gates. Alternative Farming Systems Information Center. July 1993. Updates Q.B. 90-03.

**Q.B.—93-51.** Rural Leadership, January 1980-April 1993. 163 citations in English. Prepared by Patricia La Caille John. Rural Information Center. July 1993. Updates Q.B. 91-117.

**Q.B.—93-52.** Housing, Husbandry, and Welfare of Rodents, January 1979-June 1993. 365 citations; languages: none excluded. Prepared by Catherine Lynn Shull. Animal Welfare Information Center. July 1993.

**Q.B.—93-53.** Alternative Crops, January 1991-June 1993. 134 citations; languages: none excluded. Prepared by Karl Schneider. Reference and User Services Branch. July 1993. Updates Q.B. 92-08.

**Q.B.—93-54.** Soil Testing and Plant Analysis for Fertilizer Recommendation, January 1991-June 1993. 153 citations; languages: none excluded. Prepared by Karl Schneider. Reference and User Services Branch. July 1993. Updates Q.B. 91-103.

**Q.B.—93-55.** Wastewater Irrigation, January 1990-June 1993. 158 citations; languages: none excluded. Prepared by Karl Schneider. Reference and User Services Branch. July 1993. Updates Q.B. 90-64.

**Q.B.—93-56.** Aquaculture, January 1990-July 1993. 293 citations in English. Prepared by Deborah T. Hanfman. Aquaculture Information Center. August 1993.

**Q.B.—93-57.** Farmland Preservation, January 1979-August 1993. 209 citations in English. Prepared by Jane Potter Gates. Alternative Farming Systems Information Center. August 1993. Updates Q.B. 92-05.

**Q.B.—93-58.** Housing, Husbandry, and Welfare of Dairy Cattle, January 1982-August 1993. 297 citations; languages: none excluded. Prepared by D'Anna Berry. Animal Welfare Information Center. August 1993.

**Q.B.—93-59.** Hazardous and Toxic Waste Management, January 1989-May 1993. 231 citations; languages: none excluded. Prepared by Louise Reynnells. Rural Information Center. August 1993. Updates Q.B. 90-06.

**Q.B.—93-60.** Aquatic Vegetation Control, January 1979-June 1993. 87 citations; languages: none excluded. Prepared by Ann Townsend Young. Aquaculture Information Center. August 1993. Updates Q.B. 89-100.

**Q.B.—93-61.** Crawfish Culture, January 1979-June 1993. 67 citations; languages: none excluded. Prepared by Ann Townsend Young. Aquaculture Information Center. August 1993. Updates Q.B. 91-89.

**Q.B.—93-62.** Expert Systems, Decision Support Systems and Computer-Assisted Instruction for Water Resource Management, January 1985-June 1993. 255 citations; languages: none excluded. Prepared by Bonnie Emmert and Joe Makuch. Water Quality Information Center. August 1993.

## Special Reference Briefs

**SRB—93-06.** Animal Euthanasia. Prepared by Michael D. Keger, Cynthia Petrie Smith, and Jennifer Lyons-Carter. Animal Welfare Information Center. July 1993. 49 p. Updates SRB 91-02.

**SRB—93-07.** Chemurgy and Agriculture: 1934-1940. Prepared by Wayne K. Olson. Reference and User Services Branch. August 1993. 56 p.

**SRB—93-08.** Nutrition Education Materials and Audiovisuals for Grades Pre-school-6. Prepared by Shirley King Evans. Food and Nutrition Information Center. August 1993. 87 p.

**SRB—93-09.** Nutrition Education Materials and Audiovisuals for Grades 7-12. Prepared by Shirley King Evans. Food and Nutrition Information Center. August 1993. 53 p.

**SRB—93-10.** Central and Eastern Europe: Going Global. Prepared by Mary E. Lassanyi. Agricultural Trade



and Marketing Information Center. August 1993. Updates SRB 92-01. 95 p.

## Rural Information Center Publication Series

**R.I.C.P.S.—29.** Financial Management for Local Governments. Compiled by Scott J. McKearney. Rural Information Center. August 1993. 12p.

**R.I.C.P.S.—30.** Rural Youth Employment. Compiled by Scott J. McKearney. Rural Information Center. August 1993. 20p.

**R.I.C.P.S.—31.** Journals Significant to Rural Development Received at the National Agricultural Library. Compiled by Dorothy A. Heise. Rural Information Center. August 1993. 22p.

**R.I.C.P.S.—32.** Federal Funding

Sources for Rural Areas. Compiled by M. Louise Reynnells. Rural Information Center. Revised edition. September 1993. 100 p.

**R.I.C.P.S.—33.** Rural Development Resources in the National Agricultural Library Collection. Compiled by Cheryl A. Bower. Rural Information Center. September 1993. 28 p.

## Miscellaneous

The Basics of Searching AGRI-COLA on SilverPlatter CD-ROM. Prepared by Deborah Y. Richardson. Reference and User Services Branch. August 1993. 51 p.

The Status and Potential of Aquaculture in the United States: An Overview and Bibliography. Prepared by Deborah T. Hanfman. Aquaculture Information Center. July 1993. 16p.



*Guide to Publication Contents of Business and Legal Databases.* Oxford, England; Medford, NJ: Learned Information. Annual, with 2 supplements, 1989- Vol. 1, pt. 1- 1987- Z7164.C81B725

*Canadian Biotech News.* Ottawa: Canadian Biotech News Service. Twenty-eight times a year. Vol. 1, no. 1 (Jan. 15, 1992)- HD9999.B44C36

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*Country Report. Congo, São Tomé & Príncipe, Guinea-Bissau, Cape Verde / The Economist Intelligence Unit.* London: The Unit. Quarterly. 1993, no. 1- HC980.A1C69

*Country Report. Ethiopia, Somalia, Djibouti / EIU, The Economist Intelligence Unit.* London: The Unit. Quarterly. 1993, no. 1- HC840.A1C69

*Country Report. Georgia, Armenia, Azerbaijan, Central Asian Republics / The Economist Intelligence Unit.* London: The Unit. Quarterly. 1993, no. 1- HC411.C66

*Country Report. Guinea, Sierra Leone, Liberia / The Economist Intelligence Unit.* London: The Unit. Quarterly. 1993, no. 1- HC1030.A1C68

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*Country Report. Mozambique, Malawi / The Economist Intelligence Unit.* London: The Unit. Quarterly. 1993, no. 1- HC890.A1C69

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## New Serials Received at NAL

*African Entomology: Journal of the Entomological Society of Southern Africa.* Pretoria: Entomological Society of Southern Africa. Semiannual. Vol. 1, no. 1 (Mar. 1993)- QL461.A37

*Agricultural Law Update.* Skokie, IL: Century Communications. Monthly. Vol. 1, no. 1 (Oct. 1983)- KF1681.A36

*Agro de Cuyo / INTA, Centro Regional Cuyo.* San Juan: El Centro. Ano 1, 1 (agosto 1991)- S188.S26A37

*Animal Welfare in Focus.* [Ottawa]: Canadian Federation of Humane Societies. Semiannual. [No. 1]- [1986]- HV4768.A54

*Annual Report / Wool Research and Development Council.* Melbourne: Wool Research and Development Council. Annual. 1989-1990- SF377.A56

*Bee Culture.* Medina, OH: A.I. Root Co. Monthly. Jan. 1993- SF521.B43

*Binary, Computing in Microbiology.* San Diego: Academic Press. Bimonthly. Vol. 1, issue 1 (Feb. 1989)- QR69.D35B56

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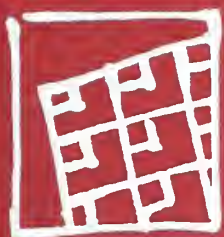
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*Zambian Journal of Agricultural Science: Official Publication of the Agricultural Science Association of Zambia.* Lusaka, Zambia: The Association. Vol. 1, no. 1 (Dec. 1990)-  
S338.Z27Z35







## Agriculture Datebook

Meetings included in this list are selected from USDA's *Ag Calendar* and information provided by NAL information centers, federal and state agencies, associations, and interest groups. Normally, items are listed only once, as soon as practical after receipt. Inclusion does not constitute endorsement by NAL or USDA. Please send items for consideration to:

*National Agricultural Library  
ALIN Editor, Room 204  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351*

**October 10-13: The Ecology of Growth and Development: 47th Annual Conference of the Southeastern Association of Fish and Wildlife Agencies.** Atlanta, GA. Contact: Timmy Hess, 404-656-3523.

**October 10-13: The Seventh Annual Food Marketing Institute Seafood Merchandising Conference.** New Orleans, LA. Contact: Tony Spleen, 202-452-8444; FAX: 202-429-4519.

**October 10-15: American Health Information Management Association Annual Conference.** Atlanta, GA. Contact: 800/621-6828 x266.

**October 11: World Congress on Meat and Poultry Inspection.** College Station, Texas; Texas A&M University. Contact: 202-720-4581.

**October 11-13: 54th International Water Conference.** Pittsburgh, PA; Pittsburgh Hilton Hotel. Contact: Engineers'Society of Western Pennsylvania, 412-261-0710; FAX 412-261-1606.

**October 11-15: International Conference on Health Preservation and Rehabilitation & Exhibition of Products for Health Maintenance and Rehabilitation.** Beijing, China. Contact: Mr. Lu Yuequan, CICCST, P.O. Box 300, Friendship Hotel, Beijing 100086, China, Phone: 86-1-8313335; FAX: 86-1-8316091.

**October 12: 7th Workshop Italia —**

**USA on: Biotechnology and Exchange of Biological Materials.** Portofino, Italy. Contact: Dr. C. Rosellini, 1st Nazionale per la Ricerca sul Cancro, Servizio Attivita Culturali, Via Benedetto XV, 10, 16132 Genoa, Italy. Phone: 010-3534603.

**October 12-13: 14th Symposium on Pesticide Formulations & Application Systems.** Fort Worth, TX. Contact: Franklin Hall, 216-263-3726.

**October 12-14: Florida Aquatic Plant Management Society 1993 Annual Meeting.** Daytona Beach, FL. Contact: Jackie Jordan, 407-793-5666.

**October 12-15: DNA Fingerprinting.** Rockville, MD. Contact: American Type Culture Collection, 301-881-2600; FAX: 301-231-5826.

**October 12-15: Fermentation Methods and Scale-Up Strategies Workshop.** Penn State Univ, PA. Contact: Patricia Phillips, 800-833-5533.

**October 12-16: North American Symposium.** Association for Farming Systems Research-Extension. University of Florida. Contact: AFSRE/NA Symposium, 904-392-5830; FAX: 904-392-8634.

**October 13-14: Ultrafiltration in Food and Bioprocessing.** Northbrook, IL; Holiday Inn Crowne Plaza. Contact: 717-291-5609; Fax: 717-295-4538.

**October 13-14: Workshop on Food Safety Law and Regulations.** Washington, DC. Contact: Food and Drug Law Institute, 202- 371-1420.

**October 13-15: Building a Shared Vision of Environmental and Economic Health: Agenda for the 21st Century and How to Get There.** Washington, DC; Madison Hotel. Contact: Lisa Grayson, 202-833-3380; 800/726-4853; FAX: 202/466-8554.

**October 13-15: The National Nurse Practitioner Symposium 14th Annual Scientific and Clinical Sessions.** Baltimore, MD; University of Maryland

School of Nursing. Contact: 410-706-3767.

**October 13-16: DNA: The Double Helix - Forty Years: Perspective and Prospective.** Chicago, IL. Contact: New York Academy of Sciences, 212-838-0230, FAX: 212-838-5640.

**October 13-17: National Roadside Vegetation Management Association Annual Conference.** Pittsburg, PA. Contact: 302-655-9993.

**October 14-15: 47th Annual Convention Oklahoma School Food Service Association.** Oklahoma City. Contact: Ramona Hewell, P.O. Box 310, Guthrie, OK 73044-0310.

**October 15: World Food Day: Seeds of Conflict: Biodiversity in the Food Supply.** U.S. National Committee for World Food Day and PBS. Satellite Teleconference. Contact: 1-800-257-2578.

**October 15-16: Comprehensive Skills for Public Housing and Community Development Commissioners.** St. Louis, MO. National Association of Housing and Redevelopment Officials. Contact: 202-429-2960.

**October 16: The Black Church and Health Care Reform Inter-Religious Health Care Access Campaign.** Chicago, IL. Contact: 202-543-5878.

**October 16-20: National Association for Home Care Annual Meeting.** San Diego, CA. Contact: Jill Patrick, 202-547-7424.

**October 17-19: National Bookmobile Conference.** State Library of Ohio. Columbus, OH. Contact: Jane Byrnes, State Library of Ohio, 65 South Front Street, Room 510, Columbus, OH 43266-0334.

**October 17-20: American Managed Care Association Annual Conference.** Orlando, FL. Contact: 202-728-0506.

**October 18-21: Blueberry Growers National Machinery Show & Exhibition.** Grand Rapids, MI. Contact: Robin Smith, 517-485-2309.

**October 18-22: Toxic Marine Phytoplankton.** Contact: Cite des Congres, Phone: 3340374130; FAX: 3340374073.

**October 18-27: Environmental Technology Trade and Investment Mission to Hong Kong and Taiwan.** Contact: Frederica Wheeler, 202-482-3509; FAX: 202-482-5665.

**October 19-21: Biotechnica '93.** Hannover, Germany. Contact: Deut-



sche Messe AG, Messegelände, D-3000 Hannover 82, Germany, FAX: 49-511 893 2626.

**October 19-21: Foodtech'93.** Stoneleigh, UK. Contact: Stephen C. Hybs, Tomorrow's World Exhibitions, P.O. Box 77, Westbury on Trym, Bristol, BS9 1AZ, UK. Phone: +44 272 686529; FAX: +44 272 687010.

**October 19-21: International Biotechnology Scientific Convention and Expo.** San Francisco, CA. Contact: Linda H. Cartlidge, 415-508-0118.

**October 19-21: Manager of Landfill Operations Training and Certification.** Calgary, Alberta, Canada. Contact: Solid Waste Association of North America, 301-585-2898.

**October 19-22: National Congress for Community Economic Development. Mid-Year Conference.** San Francisco, CA. Contact: 202-234-5009.

**October 19-23: National Renderers Association Annual Meeting.** Washington, DC; Loew's L'Enfant Plaza Hotel. Contact: 202-857-1136.

**October 20: Great American Bookmobile Conference.** Gettysburg, PA. Ramada Inn. Contact: Center for the Study of Rural Librarianship, Clarion University of PA, 814-226-2383.

**October 20: Taking the Next Step. 2nd Annual [Satellite] Conference for Working Women.** Contact: 405-744-5191.

**October 20-21: American Disability Association: 15th Annual National Conference.** Kansas City, MO; National Center for Disability Services. Contact: 516-747-6323.

**October 20-22: Building Bridges for Our Children: Keeping the Spirit of Excellence Alive National Black Child Development Institute 23rd Annual Conference.** Contact: 202-387-1281.

**October 20-23: Fish Expo.** Seattle, WA. Contact: 207-772-3005; FAX: 207-772-5059.

**October 21-22: Dairy Starter Cultures.** St. Louis, MO; Stouffer Concourse Hotel. Contact: 717-291-5609; FAX: 717-295-4538.

**October 21-23: The 21st Century: The Future of Rural and Small Public Libraries.** Gettysburg, PA. Contact: Center for the Study of Rural Librarianship, Clarion University of PA, 814-226-2383.

**October 21-24: Redressing the Im-**

**balance: Health Human Resources in Rural and Northern Communities.** Contact: Connie Hartviksen or Jean Engholm, 807-343-2135 or 807-343-2134.

**October 22-23: Improving Health Services Research Related to Rural Minorities.** Omaha, NE; Nebraska Rural Health Research Center. Contact: 402-559-5260.

**October 22-24: Creativity and Sharing in Community.** Yellow Springs, OH. Contact: Community Services, Inc., 513-767-2161 or 513-767-1461.

**October 22-26: Annual Meeting. American Assoc. of State Highway and Transportation Officials.** Detroit, MI. Contact: 202-624-5800.

**October 22-24: 1993 Biennial Meeting on Great Lakes Water Quality.** Windsor, Ontario. Contact: Information Services, International Joint Commission, in Canada, 519-256-7821; in the U.S., 313-226-2170.

**October 23-24: Advanced Skills Training '93: Counseling Eating Disordered Patients.** Anaheim, CA. Contact: Karen Siegel Nutrition Health Services (NHS), 9660 Hillcroft, Suite 437, Houston, TX 77096, 713-721-7755.

**October 23-24: Fourth Annual Minnesota Lakes Conference.** Brainerd, MN. Contact: Pat Wulff, 612-479-2972.

**October 23-24: Pondering a Water Garden.** Brookshire, TX. Contact: Lilypons, 800-765-5459; FAX: 800-766-5459.

**October 23-26: Genome Sequencing and Analysis Conference V.** Hilton Head Island, SC. Contact: Susan Wallace, (swallace@bengal.tigr.org).

**October 24-25: Western Region USDA/SARE Conference: Science and Sustainability: Reshaping Ag Research and Education.** Bellevue, WA. Contact: 202-720-3631.

**October 24-26: Conference on Science and Sustainability: Reshaping Agricultural Research and Education.** Seattle, WA. Contact: Norma Fuentes-Scott, 509-335-2921 or Colette DePheps, 509-335-2887.

**October 24-27: International Meeting on Biosafety and Microbial Ecology (Biotechnology Research for Innovation, Development and Growth in Europe—BRIDGE).** Granada,

Spain. Contact: Maria del Mar Fandila, +34-58-121001; FAX: +34-58-129600.

**October 24-27: Reaching New Heights in Housing and Community Development.** National Conference and Exhibition. National Association of Housing and Redevelopment Officials. Denver, CO. Contact: Betsy Martens, 303-447-0690.

**October 24-27: Water Resources in the Middle East: Policy and Institutional Aspects.** Beckman Institute, University of Illinois, Urbana, IL. Contact: Glenn Stout, 217-333-0536; FAX: 217-244-6633; e-mail G-STOUT@UIUC.EDU.

**October 24-28: American Public Health Association 121st Annual Meeting.** San Francisco, CA. Contact: 202-789-5600.

**October 24-28: National Association of State Emergency Medical Services Directors (NASEMSD) Annual Meeting.** Austin, TX. Contact: 619-431-7054.

**October 25: LaLeche League International Workshop Series VIII.** Needham, MA; Sheraton Needham Hotel. Contact: 708-455-7730; FAX: 708-455-0125.

**October 25: U.S. Animal Health Association.** Las Vegas, NV. Contact: 202-720-7025.

**October 25-26: Disability Management Conference and Exhibit.** Arlington, VA; Institute for Rehabilitation and Disability Management. Contact: 202-408-9320.

**October 25-29: Regional Symposium on Natural Resources.** Spokane, WA. Contact: 202-205-1491.

**October 26: Public Issues Education: Essential Tools for Extension Educators.** University of Wisconsin Extension Satellite Teleconference. Contact: Terry Gibson, 608-262-9940.

**October 26-27: 26th Annual Water Resources Conference.** St. Paul, MN; University of Minnesota. Contact: Bev Rindsak, 612/625-6689.

**October 26-28: International Biotechnology Expo and Conference '93: Biotechnology In Action—Industry, Academia and Government.** San Francisco, CA. Contact: 415-508-0118; Fax: 415-595-4864.

**October 26-28: The Third Annual Caribbean Environmental Educational Conference and Buyers Exhibition.**



San Juan, Puerto Rico; El Centro Convention Center. Contact: Bob Frederick, 301-986-7800; Telex: 4944944 EJK EXPO; FAX: 301-986-4538.

**October 26-28: The 21st Century—Whose Future Is It? Independent Living '93.** Association of Independent Living Centers. Albany, NY; Albany Marriott. Contact: Todd Egert, 518-459-6422 or FAX: 518-459-7847.

**October 26-30: North-South Dialogue on Water Management.** Miami, FL; Hotel Intercontinental. Contact: South Florida Water Management District, P.O. Box 3301, Gun Club Rd., West Palm Beach, FL 33416-4680.

**October 27: LaLeche League International Workshop Series VIII.** Atlanta, GA. Contact: 708-455-7730; FAX: 708-455-0125.

**October 27-29: 1993 Rocky Mountain Groundwater Conference.** Albuquerque, NM. Contact: William Stone, 505-827-2434; FAX: 505/827-2965.

**October 28: Obstetrical Care in Small, Rural Communities: Is It a Realistic Undertaking? National Rural Health Association Health Policy Roundtable VIII Teleconference.** Contact: 816-756-3144.

**October 28-30: National Science Teachers Association, 1993 Western Area Convention.** Denver, CO. Contact: 202-328-5800.

**October 28-November 1: Helping Small Towns Survive.** Heartland Center for Leadership Development & Kellogg Foundation. Jackson Hole, WY; Snow King Resort. Contact: 1-800-927-1115 or 402-474-7667.

**October 29: LaLeche League International Workshop Series VIII.** Baltimore, MD; Sheraton International on BWI Airport. Contact: 708-455-7730; FAX: 708-455-0125.

**October 31-November 3: 11th Annual New Products Conference.** The Registry Resort, Naples, Florida. Contact: Jean Siwichi, 312-321-6301.

**October 31-Nov. 3: Irrigation Association's 1993 International Irrigation Exposition and Technical Conference.** San Diego, CA. Contact: Progress Committee Chairman, The Irrigation Association, 1911 North Fort Myer Drive, Suite 1009, Arlington, VA 22209-1630.

**November: Franchising Trade Mission to Budapest, Prague, and Sofia.** Contact: Brian Toohey, Hungary Desk Officer, U.S. Department of Commerce, 202-482-4915.

**November 1-3: The Fourth National Pesticide Conference: New Directions in Pesticide Research, Development, Management, and Policy.** Richmond, VA. Contact: Diana Weignann, 703-231-5624; FAX: 703/231-6673.

**November 1-3: Pacific Aquaculture Conference and Exposition.** Vancouver, British Columbia, Canada. Contact: Sea Fare Expositions, 206-547-6030; FAX: 206-548-9346.

**November 1-3: Southeastern Regional Symposium.** Solid Waste Association of North America. Myrtle Beach, SC. Contact: 301-585-2898.

**November 1-13: Theoretical and Practical Course on Molecular Genetics.** Havana, Cuba. Contact: J. C. Mounolou, Centre de Genetique Moleculaire, Centre National de la Recherche Scientifique, Gif, 91198, France.

**November 2-5: Biennial National Meeting of State School Lunch Directors.** Louisville, KY. Contact: 703-305-2710.

**November 2-5: Polymerase Chain Reaction/Cycle DNA Sequencing.** Rockville, MD. Contact: American Type Culture Collection, 301-881-2600; FAX: 301-231-5826.

**November 3: Rethinking the Organization. 1st Annual [Satellite] Conference on Increasing Competitiveness.** Contact: 405-744-5191.

**November 3: 12th Annual Agribusiness Issues and Outlook Conference.** Centre Plaza Holiday Inn, Fresno, CA. Contact: CAB, 209-278-4405.

**November 3-5: Administering a Small Law Enforcement Agency.** International Association of Chiefs of Police. Largo, FL. Contact: 1-800-843-4227.

**November 3-5: 28th Annual Fall Conference.** Pleasanton, CA; California Transit Association. Contact: Vic Sood, Livermore-Amador Valley Transit Authority, 510-4550-7555.

**November 3-7: National Fisheries Institute 48th Annual Convention.** Washington, DC. Contact: Pat McCoy, 703-524-8882; FAX: 703-524-4619.

**November 4-6: Annual Conference.**

**National Onsite Wastewater Recycling Association.** Fort Worth, TX. Contact: 813-644-3228.

**November 4-6: North Central Aquaculture Conference.** Sarina, Ontario, Canada. Contact: Bob Baldwin (US), 616-796-2284 or Jim Taylor (Canada), 519-669-8255.

**November 4-7: The Future of America's Rivers: A Celebration of the 25th Anniversary of the National Wild and Scenic Rivers Act.** Arlington, VA; Stouffer Concourse Hotel. Contact: 202-833-3380; FAX: 202/466-8554.

**November 5-6: Bradan '93.** Clifden, Connemara. Contact: Irish Growers Association, FAX: 3531504182.

**November 5-6: Images of the Environment: Evolving Perspectives of the Global Commons (Interdisciplinary Graduate/Faculty Symposium).** Contact: Andy Harper or Hugh Bartling, Department of History, Northern Arizona University, Box 6023, Flagstaff, AZ 86011, 602523-6167; bartling@nauvax.cc.nau.edu or harper@nauvax.ucc.nau.edu.

**November 5-6: Impact of the First Week on Longterm Breastfeeding...A Recipe for Success.** Knoxville, TN; Knoxville Hilton. Contact: 215-882-1281; FAX: 215-997-7879.

**November 5-11: Association of American Medical Colleges Annual Meeting.** Washington, DC. Contact: AAMC, 2450 N St. NW, Washington, DC 20037-1126.

**November 6-9: National Association of Development Organizations.** San Antonio, TX. Contact: 202-624-7806.

**November 7-10: Electrophoresis '93.** Charleston, SC. Contact: Janet Cunningham, 301-898-3772; FAX: 301-898-5596.

**November 7-10: First International Symposium on Natural Colors.** Amherst, MA. Contact: P.C. Hereld, 203-281-6766.

**November 7-12: Society for Neuroscience.** Washington, DC; Washington Convention Center. Contact: 212-532-9400.

**November 8-10: United States Distance Learning Association (USDLA) Annual Meeting.** San Jose, CA. Contact: 800-829-3400.

**November 8-12: Intensive Course in Pediatric Nutrition.** Iowa City, IA.



Contact: Samuel J. Fomon, 319-356-1831.

**November 9: American Feed Industry Association.** St. Louis, MO. Contact: 202-720-7025.

**November 9-12: Mammalian Cell Culture Methods Workshop.** Penn State Univ, PA. Contact: Patricia Phillips, 800-833-5533.

**November 10-12: Future Farmers of America Career Show.** Kansas City, MO; Roe-Bartle Hall. Contact: Marci Jacobson, 605-248-2315.

**November 10-12: International Symposium on New Information Technologies in Agriculture.** Bonn, Germany. Contact: Dr. Eberhard Munch, ZADI, P.O. Box 201415, D-5300 Bonn 2, Germany. Phone: 49-228-954-8117; FAX: 49-228-954-8149.

**November 10-12: The Role of Utilities in Community Based Development.** Washington, DC; Edison Electric Institute/American Gas Association. Contact: 703-841-8531.

**November 10-13: Environmental Management of Enclosed Coastal Seas.** Baltimore, MD. Contact: 410-974-5047; FAX: 410/974-3158.

**November 10-13: A National Primary Care Conference for Nurse Practitioners and Physician Assistants.** Boston, MA. Contact: Kathleen McDonald, 617-861-0270.

**November 11-12: Emerging Biotechnologies and Industrial Opportunities.** Trieste, Italy. Contact: Ms. Diana Viti, ICGEB, Padriciano 99, 34012 Trieste, Italy. Phone: 404-375-7333; FAX: 040-226-555.

**November 11-13: Building a Social Compact for America's Communities.** National Conference on Governance. Atlanta, GA. Contact: Wendy Dickstein, 303-571-4343.

**November 11-13: National Science Teachers Association, 1993 Mid-western Area Convention.** Louisville, KY. Contact: 202-328-5800.

**November 12-14: American Society of Farm Managers & Rural Appraisers Annual Convention.** Greensboro, NC. Contact: 708-647-1200, ext. 307.

**November 14-17: Agricultural Bankers Conference.** Dallas, TX. Contact: Carroll E. Merry, 708-647-1200, ext. 307.

**November 14-17: Private Label Trade Show.** Private Label Manufac-

turers Association. Rosemount Convention Centre; Chicago, IL. Contact: 212-972-3131.

**November 14-18: Integrated Ecological Risk Assessment: Lessons Learned?; 14th Annual Meeting of the Society of Environmental Toxicology and Chemistry.** Westin Galleria, Houston, TX. Contact: Philip Dorn, 713-493-7213; FAX: 713-493-8727.

**November 14-19: World Congress on Alternatives and Animal Use in the Life Sciences.** Baltimore, MD; Stouffer Harborplace Hotel. Contact: 410-955-2959 or Dr. Alan Goldberg, 410-955-3343.

**November 17-19: Conference on Chronic Disease Prevention and Control.** Kansas City, MO. Contact: Dr. Eugene J. Lengerich, 919-733-7081.

**November 17-20: The Fifth Annual Alaska Aquaculture Conference.** Anchorage, Alaska. Contact: Brenda Baxter, 907-474-7088; FAX: 907-474-6285.

**November 18: Zeneca Ag Products Executive Club Annual Meeting.** Washington, DC. Contact: 202-720-3631.

**November 18-19: Fumigants and Food Storage.** Irving, TX; Dallas/Fort Worth Airport Marriott. Contact: 717-291-5609; FAX: 717-295-4538.

**November 18-20: Beyond DNA Probes, Eighth Annual San Diego Conference on Nucleic Acids.** San Diego, CA. Contact: Scherago International, 212-643-1750; FAX: 212-643-1758.

**November 18-21: American Academy of Medical Administrators 36th Annual Conference and Convocation.** San Antonio, TX. Contact: 313-540-4310.

**November 19-23: Employment Policy and Human Services Conference.** San Francisco, CA. Contact: National Association of Counties, 202-393-6226.

**November 19-23: NACo Employment Policy and Human Services Conference.** San Francisco, CA. Contact: National Association of Counties, 202-393-6226.

**November 22-25: Brighton Crop Protection Conference: Weeds.** Brighton, UK. Contact: Conference Associates and Services Ltd., 55 New Cavendish Street, London W1M 7RE, UK.

**November 22-27: Fourth Brazilian**

**Shrimp Farming Symposium and 1st Brazilian Aquaculture Congress.** Joao Pessoa, Paraiba, Brazil. Contact: Itamar Rocha, Phone: 5583222 3561; FAX: 55832224538.

**November 29-December 1: 6th International Symposium on Gas, Oil and Environmental Biotechnology.** Colorado Springs, CO. Contact: V. Srivastava, 312-949-3764; FAX: 312-949-3700.

**November 29-December 2: International Association of Fairs and Expositions (IAFE) 103rd Annual Convention and Trade Show.** Las Vegas, NV; Bally's Grand Hotel. Contact: 417-862-5771.

**November 29-December 4: Thirteenth Annual International Symposium - North American Lake Management Society.** Seattle, WA; Contact: Bob Schroeder, 303-781-8287.

**November 30 - December 2, 1993: Agricultural Outlook '94.** Washington, DC; USDA. Contact: Raymond L. Bridge, 202-720-5447.

**December 2-4: American College of Physicians Annual Meeting.** Seattle, WA. Contact: American College of Physicians, 215-351-2400.

**December 2-4: Pacific Coast and National Bargaining Conference.** Portland, OR. Contact: 202-720-7558.

**December 4-8: National League of Cities, Congress of Cities.** Orlando, FL. Contact: 202-626-3000.

**December 5: National Agricultural Aviation Association Board Meeting.** Reno, NV; Reno Hilton. Contact: Rita Swann, 202-546-5722.

**December 5-7: 4R Conference and Road Show.** Philadelphia, PA. Contact: Gillette Exposition Group, 708-298-6622.

**December 5-7: NAGC National Communications School.** Alexandria, VA; Old Colony Inn. Contact: Debbie Trocchi, 703-519-3902.

**December 5-7: Nutrition and Biotechnology in Heart Disease and Cancer.** Raleigh/Durham/Chapel Hill, Research Triangle Park, NC. The Sheraton Imperial Hotel & Convention Center. Contact: Phyllis Woody, 919-966-4032; FAX: 919-966-5692 or John Longenecker, 919-966-1095; FAX: 919-966-6267.

**December 5-8: American Medical Association Interim Meeting.** New Orleans, LA. Contact: 312-464-5000.



**December 6-8: Community Oriented Policing.** International Association of Chiefs of Police. Dublin, OH. Contact: 1-800-843-4227.

**December 6-9: National Agricultural Aviation Association Annual Convention.** Reno, NV; Reno Hilton & Sparks Convention Center. Contact: Rita Swann or Marilyn McKinnis (exhibits), 202-546-5722.

**December 7-9: Manager of Landfill Operations Training and Certification.** [date tentative] Monterey, CA. Contact: Solid Waste Association of North America, 301-585-2898.

**December 7-9: National Childhood Lead Poisoning Prevention Conference.** Atlanta, GA. Contact: Yvonne Chrimes, 404-633-8610.

**December 9: Second Annual Fertilizer Research and Education Conference.** Davis, CA; University of California, Davis, Alumni Center. Contact: Carl DeWing, 916-654-0462.

**December 11-15: The American Society for Cell Biology, Thirty-third Annual Meeting.** New Orleans, LA. Contact: 301-530-7153; FAX: 301-530-7139.

**December 11-15: 55th Midwest Fish & Wildlife Conference—New Agendas in Fish and Wildlife Management: Approaching the Next Millennium.** St. Louis, MO. Contact: Wayne Porath, 314-882-9880.

**December 12-16: Conserv99—The New Water Agenda; 1993.** Las Vegas, NV. Contact: Rick Harmon, 303-794-7711; FAX: 303-794-7310.

**December 13-14: Interated Farm Management and Landscape Modification for Environmental Protection.** Chicago, IL. Contact: ASAE, 616-429-0300; FAX: 616-429-3852.

**December 13-14: Water Quality Protection for Irrigation.** Chicago, IL. Contact: ASAE, 616-429-0300, FAX: 616-429-3852.

**December 14-17: American Society of Agricultural Engineers International Winter Meeting.** Contact: 616-429-0300; FAX: 616-429-3852.

**December 14-17: International Symposium on Socio-economics of Aquaculture.** Taiwan, Republic of China. Contact: Cheng-Sheng Lee, FAX: 808-259-5971.


**December 16-18: National Science Teachers Association, Eastern Area Convention.** Orlando, FL. Contact:

202-328-5800.

#### 1994 Events

**January 9-16: Improved Crop and Plant Products Through Biotechnol-**

**ogy.** Keystone, CO. Contact: 303-262-1230; FAX: 303-262-1525.

**January 12-18: Aquaculture Expo VII and Aquaculture '94.** New Orleans, LA. Contact: Carroll Trosclair, 800-527-7631; FAX: 504-488-4135. 



*The Planter.* Incorporated Society of Planters. Vol. 61, no. 708, 1985.

## Serial Gaps

The National Agricultural Library identifies gaps in the national collection through collection maintenance activities and patron requests. We would appreciate your donation of the following publications needed to complete NAL collections. If you have questions, contact Jeff Maier, (301) 504-5208, [TTY (301) 504-6856]; FAX (301) 504-5471; or INTERNET: jmaier@nalusda.gov

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*Acta Mycologica.* Vol. 18, no. 2, 1982.

*Gendai Nogyo.* Vol. 57, no. 6; vol. 60, nos. 1-6, 12; vol. 61, no. 11; vol. 68, nos. 5-6; vol. 69, no. 5.

*Hormones and Behavior.* 1983, vol. 17, no. 1; 1984, vol. 18, no. 2.

*Journal of Eastern African Research and Development.* Vol. 7-10, 1977-1980; Vol. 16, 1986; Vol. 18, 1988.

*Journal of Histochemistry and Cytochemistry.* Vol. 28, nos. 5-12; vol. 29, no. 2; vol. 32, no. 10; vol. 34, no. 3.

*Nordisk Jordbrugsforskning.* Vol. 69, nos. 1-4, 1987; vol. 70, nos. 1-3, 1988.

## Surplus Publications

The National Agricultural Library will provide the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions, and foreign exchange partners. Titles not requested will be purged six months after the initial listing.

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*Applied & Environmental Microbiology.* Vol. 54, no. 5 to vol. 55, no. 12.

*Crop Science.* Vols. 4-18, 21, 23.

*Soil Science Society of America Journal.* Vols. 38, 39, 42, 44.

*Soil Science Society of America Proceedings.* Vols. 26-31, 1962-67; and vols. 33-35, 1969-71.

*Turkey World.* 1954-56; 1960; 1962; 1969; 1971-77. 

# NAL Rediscovered Jefferson Correspondence

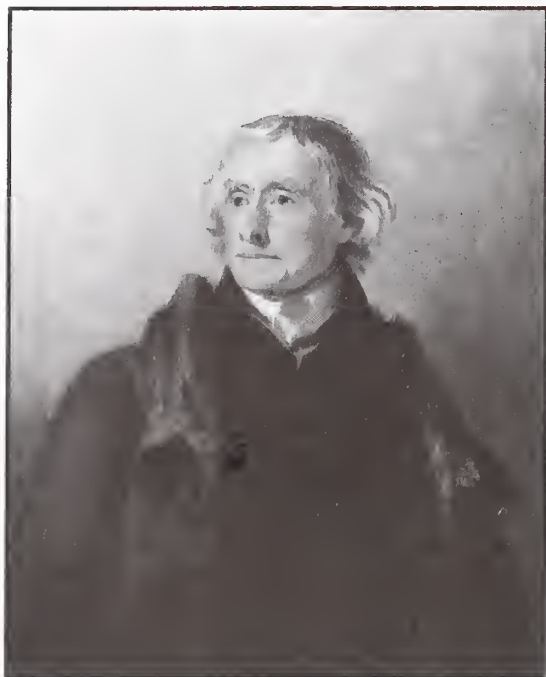


Photo of Thomas Sully's 1856 copy of his 1821 life portrait of Thomas Jefferson. (See pages 1-7 for letter stories.)

Photo courtesy of Monticello/Thomas Jefferson Memorial Foundation.

## List of NAL's Jefferson Correspondence

1786, April 24, Extract from Account Book of James Lee & Co., noting nursery stock purchased by Thomas Jefferson. *Copy*

1794, March 13, Philadelphia. Richard Peters to Thomas Jefferson, concerning a plan for a state agricultural society. *Original*

1801, March 7, Washington, D.C. James O'Dermott to Thomas Jefferson, offering himself for appointment to an office. *Copy*

1801, June 23, No place indicated. Luke O Dio to Thomas Jefferson, concerning his qualifications for laying out public gardens in Washington, D.C. *Original*

1806, March 24, London. Lord Sheffield to Thomas Jefferson, acknowledging his receipt of a model of Jefferson's mould board. *Original*

1810, April 17, Monticello. Thomas Jefferson to Col. Skipwith, concerning millet seed. *Original*

1816, August 13, Baltimore. John Campbell White to Thomas Jefferson, concerning melon seed from Persia. *Original*

1816, August 24, Monticello. Thomas Jefferson to John Campbell White, acknowledging the receipt of the melon seed from Persia. *Original*

1818, November 6, Prince Edward. Henry E. Watkins to Thomas Jefferson, asking for some succory seed. *Original*

1818, November 27, Monticello. Thomas Jefferson to Henry E. Watkins, transmitting succory seed and outlining the culture of succory. *Original*

1819, October 20, Paris. Silvestre to Thomas Jefferson, concerning agricultural matters. *Original*

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